

Chemoreception Abstracts®

Chemical senses & applied techniques

Volume 14

Annual Indexes to Volume 14 1986

P
55
48
14
dex
86
INDEX

U.I.C.
JAN 28 1987
LIBRARY

SN 0300-1261

Cambridge Scientific Abstracts

Subscriptions

Annual subscription rates

Full details of surface and air delivery rates in the various geographical areas shown below can be obtained from the appropriate office or agent.

Japan

USACO Corporation,
Tsutsumi Building,
13-12 Shimbashi 1-chome,
Minato-ku, Tokyo 105, Japan

India, Sri Lanka, Bangladesh, Nepal, Burma, Malaysia, Singapore, Indonesia and Thailand

Universal Subscription Agency Pvt. Ltd.,
117/Y-1/294-B Model Town,
Pandu Nagar, Kanpur 208005,
India

Israel

N.P.K. Meida Ltd.,
P.O. Box 10127,
Tel-Aviv 61101, Israel

Rest of the world

Cambridge Scientific Abstracts,
5161 River Road, Bethesda, MD 20816, USA

©1986 Cambridge Scientific Abstracts. All rights reserved by publisher. No part of this publication may be reproduced or transmitted in any form by any means, electronic or mechanical, including photocopying, recording or any information storage and retrieval system, without permission in writing from the publisher.

Chemoreception Abstracts (ISSN 0300-1261) is published quarterly for US \$209 per year by Cambridge Scientific Abstracts, 5161 River Road, Bethesda, MD 20816. Second class postage paid at Bethesda, MD. POSTMASTER: Send address changes to Chemoreception Abstracts, Cambridge Scientific Abstracts, 5161 River Road, Bethesda, MD 20816

Chemoreception Abstracts

Chemical senses & applied techniques

Volume 14

Annual Indexes to Volume 14 1986

Editor

Mary C. Russell

Editorial advisors

P. MacLeod, Ecole Pratique des Hautes, Etudes, Fontenay aux Roses, France

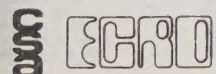
R. Harper, Department of Food Science, University of Reading, England

E.P. Koster, State University of Utrecht, The Netherlands

G.M. Shepherd, Department of Physiology, Yale University Medical School, New Haven, USA

R.C. Gesteland, Department of Anatomy, University of Cincinnati School of Medicine, Cincinnati, OH, U.S.A.

ISSN 0300-1261



Compiled quarterly by Cambridge Scientific Abstracts in association with the European Chemoreception Research Organization, Collège de France, Paris

Foreword

Chemoreception Abstracts

commenced publication in 1973 and is published quarterly. Each issue contains approximately 375 abstracts, followed by author and subject indexes.

Coverage

In compiling each month's issue, CSA's editorial staff monitors approximately 5,000 primary journals and other source references for papers falling within the scope of Chemoreception Abstracts.

Subject scope and arrangement of Subject Matter

The table of contents shows the full scope of the journal. Chemoreception represents the bringing together of many different disciplines relating to taste, smell, internal chemoreception, chemotaxis and associated forms of sensitivity. Interest has developed on an international scale and the literature is very scattered. Abstracts are allocated to the section to which they are most relevant and cross-referred to other sections (subsections) where appropriate.

Using this journal

Full details of the bibliographic data cited for each abstract and of abbreviations used can be found in the first issue of each volume.

Author Index

- Audesirk, T.E. 1203.
Auger, J. 1234.
Auger, M. 599.
Aukrust, A. 274.
Aust, L.B. 371.
Aust, S.D. 340.
Austara, Oe. 946.
Autio, K. 1063, 1104.
Avdeeva, L.A. 1240, 1241.
Azar, M. 942.
Aziz, E. 838.
Aziz, E.S. 448.
- Baan, G. 1251.
Baba, K. 687.
Baba, Y. 409.
Babcock, G.F. 451.
Babcock, J.L. 1210.
Babuchowski, A. 673.
Baccou, J.-C. 1400.
Backlund, P.S., Jr. 120.
Baer, A.J. 209.
Baekstroem, P. 671.
Baer, M.T. 478.
Bailey, J.B. 1260.
Bailey, M.E. 292, 337.
Balnes, S. 1441.
Bakay, R.A.E. 61.
Baker, G.T. 811.
Baker, R. 209, 936, 969.
Baker, T.C. 143, 535, 538, 897, 932.
Bakke, A. 191, 946.
Balan, J. 164.
Balaram, P. 434.
Balasubramanyam, B.V. 1084.
Baldacini, N.E. 1393.
Ballard, L.B. 703.
Balogh, E. 114.
Banks, J. 222.
Banks, J. 800.
Bankuor, N. 318.
Barber, S.B. 1201.
Barbosa, P. 1273.
Barclay, H.J. 955.
Bardo, M.T. 1022.
Bartaux, O. 318.
Bartelle, J.L. 596.
Barnard, J. 715.
Barnes, G.M. 403.
Barnes, M.M. 604.
Barnwell, G.M. 1018.
Barnhart, M. 1200.
Bars, P. 720.
Bartlett, R.J. 564, 568.
Bartley, I.M. 677.
Bartoshuk, L.M. 37.
Bartoshuk, L.M. 25, 791.
Basker, D. 731.
Bassette, R. 341.
Battistotti, B. 727, 1480.
Baum, B.J. 1162.
Baumes, R.L. 1056, 1057.
Bayer, S.A. 771, 772.
Bayanova, C.L. 1056, 1057.
Beard, S.A. 371.
Beauchamp, G.K. 29, 232, 626, 634.
Beauchamp, J.T. 808.
Beauvais, F. 915.
Bechtel, P.J. 358.
Becker, E.L. 845.
Becker, K.M. 437.
Becker, V.J. 663.
Bector, B.S. 729.
Bedard, W.D. 570.
Beeker, T.G. 799.
Beeman, C.S. 66.
Beer, D.J. 471.
Beervoor, P.S. 146, 544.
Beg, S. 324.
Beid, R. 31.
Beidler, L.M. 1150.
Belcher, A.M. 1007.
Beljaeva, N.V. 181.
Bell, F.L. 1365.
Bell, T.W. 891.
Bell, W.J. 1243.
Belles, X. 563.
Bellinger, L.L. 641.
Benjilali, B. 318.
Benn, M.H. 1172, 1262.
Bennedson, J. 847.
Bennett, B. 169.
Bennett, M.M. 949.
Benny, M. 150.
Benson, T.E. 1192.
Bentley, B.L. 612.
Benvenga, M. 1371.
Bervenuti, S. 1365, 1389, 1391.
Benz, G. 557, 964.
Berg, R.A. 832.
Berger, R.G. 279.
Berger, R.H. 651.
Bergh, C. 1338.
Berglund, B. 408.
- Berglund, U. 408.
Bergstrom, G. 532, 620, 1307.
Berisford, C.W. 881, 1314.
Berk, S.G. 876.
Berlot, C.H. 871.
Bernard, D.T. 725.
Berret, M. 506, 914.
Berridge, K.C. 1032.
Berry, B.W. 359.
Berry, M.S. 251.
Bersani, L. 113.
Bertrand, A. 306.
Bessiere, J.-M. 1400.
Best, M.R. 1017.
Bestmann, H.J. 597, 922, 994.
Bettolo, G.B.M. 561.
Beumer, R.R. 734.
Bevan, C. 800.
Bezzubov, A.A. 303, 1058.
Bhachowshi, A. 673.
Bicchieri, M.C. 41.
Biehl, B. 716.
Biggs, D.R. 569.
Bignetti, E. 49.
Bigpost, S.C.A. 513.
Billings, R.F. 574, 1345.
Bin, F. 145.
Bird, U.S. 717.
Birch, G.G. 1165.
Birch, M.C. 152.
Bird, S. 1164.
Bird, T.G. 1257, 1289, 1343.
Bishop, D.R. 339.
Bjorkling, F. 671.
Bjostad, L.B. 893.
Black, G.A. 1037.
Blakeman, N. 1156.
Blakeway, J.M. 699.
Bland, M.A. 339.
Blaney, W.M. 382, 561.
Blaschke, C.F. 959.
Blaser, C. 506, 914.
Blass, E.M. 224, 627, 1005.
Blau, J.N. 33.
Blentford, D. 1422.
Block, S. 1073.
Boleslowski, M. 170.
Blum, M.S. 1379.
Blumberg, D. 930.
Boake, C.R.B. 884.
Boczek, J. 933.
Boeckh, J. 1169.
Boelsens, M.H. 313, 693.
Boelen, I. 1448.
Bogenschuetz, H. 597, 925.
Bognar, S. 1332.
Bogner, F. 1169.
Boland, W. 1226, 1227, 1255.
Boller, E.F. 906.
Bomberg, S. 572.
Bonaga, G. 675.
Bonazzi, C. 410.
Bonazzi, G. 1439, 1444.
Bondani, K. 200.
Bondarovich, H.A. 294.
Bond, L.W. 580, 1263.
Boncompagni, T.J. 714.
Bonomo, L. 445, 829.
Bonsu, A.K. 321.
Booi, C.J.H. 512.
Booth, W.D. 1095, 1358.
Bopp, M. 509, 1169, 1242.
Borden, J.H. 578, 606, 609, 1287, 1300.
Boren, H. 1082.
Borg-Karlson, A.-K. 1302.
Borinski, R. 109.
Borowsky, B. 508.
Boroni, P.F. 775.
Bose, S.K. 852.
Bosi, F. 727.
Bossert, J.O. 1412.
Bottazzi, B. 113, 410.
Bottazzi, V. 727, 1480.
Bradley, K.P. 580.
Bourne, H.R. 442.
Bourne, M.C. 349.
Bovey, P. 964.
Bowen, D.J. 267.
Boyd, C.E. 1485.
Boysse, E.A. 628.
Bradfield, R.B. 478.
Bradford, P.G. 71.
Bradford, L.R. 628.
Bradley, R.M. 401.
Bradshaw, W.S. 936.
Brady, D.K. 1459.
Brady, J. 571.
Brady, P. 1093.
Brael, P.A. 715.
Bragdon, S. 1013.
Brain, P.F. 251.
Braitman, D.J. 1180.
Brand, M. 207.
Brandl, D.G. 137.
- Brandt, S.J. 447.
Brashear, H.R. 428.
Breed, M.D. 169, 203.
Breh, M. 206.
Breipohl, W. 1179.
Breitman, T.R. 828.
Brenner, H.A. 325.
Brennan, C.P. 362.
Bressler, J.P. 132.
Bruckner, H. 1186.
Brewer, J.W. 522.
Brezgunov, V.N. 491.
Bridges, R.B. 842.
Brisbin, L.J. 1369.
Britton, A. 459.
Bris, J.J. 1472.
Brodin, L. 1202.
Brody, A.R. 98, 1207.
Brooks, M. 1184.
Brophy, J.J. 1062.
Brossut, R. 510.
Broumas, T. 974, 1333.
Brousse-Gaury, P. 175.
Brouwer, J.N. 17.
Brown, A.C. 1297.
Brown, B. 560.
Brown, C.S. 83, 437.
Brown, D.F. 1280.
Brown, J.E. 795.
Brown, L.N. 880.
Brown, R.E. 218, 247, 248, 374.
Brown, W.V. 210, 1272.
Bruce, A.M. 1424.
Brugo, A.M. 86.
Brunes, P.C. 817.
Brunner, E. 716.
Brunzell, J.D. 35.
Buchelos, C.T. 190.
Buckheim, W. 1111.
Buckley, K.A. 1082.
Buckley, P. 1314.
Buda, V. 515.
Buehlmann, C. 1109.
Bueki, K.G. 125.
Buglio, A.R. 589.
Buhl, E.H. 427.
Bulgarov, R. 489.
Bull, S.M. 326.
Bundel, J.G. 302.
Buret, M. 1478.
Burger, R.E. 403.
Burghardt, G. 967.
Burke, T.J. 1373.
Burkholder, W.E. 565, 579, 938.
Burks, M.L. 670, 1257.
Burtin, B. 20.
Burton, J.L. 475.
Burton, M.J. 654.
Burton, P.R. 48, 58.
Buschinger, J. 1308.
Buscher, H.R. 488, 908, 909.
Busfield, D. 336.
Busse, W.D. 105.
Butler, G. 368, 1066, 1116.
Butler, L. 203.
Butler, P.O. 181.
Buttery, R.G. 137, 176, 898.
Butts, R.M. 715.
Byrd, R.P., Jr. 8.
- Cacini, A.T. 1217.
Caffarelli, V. 193, 195.
Cain, W.S. 37, 789, 794, 798, 1161, 1167.
Calabretta, C. 194.
Calkins, C. 960.
Camazine, S. 289, 655.
Cameron, R. 881.
Campbell, D.H. 648.
Campbell, M.G. 911.
Campion, D.G. 201.
Camps, M. 972.
Camps, A.B. 1117.
Camps, F. 583.
Canellas, J. 315.
Canonaco, M. 1139.
Canton, G.L. 120.
Cantz, M. 93.
Capaldi, E.D. 648.
Capizzi, A. 148.
Caprio, J. 8, 1152, 1197.
Capurso, A. 829.
Carde, R. 499, 541, 921, 1281.
Carles, J.P. 1309.
Carlsen, J. 428.
Carlsen, P.H.J. 1038.
Carlson, D.A. 516.
Carlson, G.J. 497.
Carlson, R.G. 511.
Carmack, M. 1004.
Carney, R.L. 664, 1289.
Caro de Miguel, C. 1168.
Carr, T.R. 358.
Carr, W.E.S. 756, 1298.
- Carrow, J.R. 1317.
Carson, K.A. 510.
Carter, G.W. 436.
Carvalho, J.F. 1249.
Case, J.F. 165.
Casida, J.E. 381.
Cassidy, S.S. 22.
Castellari, P.L. 981.
Castranova, V. 436.
Catalanotto, F. 34, 37.
Caton, T.M. 1375.
Causse, R. 915.
Cavaggoni, A. 49.
Cavalloro, R. 1125, 1498.
Cavanagh, G.G. 201.
Cavin, J.P. 327.
Caza, P.A. 271.
Cenar, D.M. 471.
Cescon, P. 283.
Chabli, A. 213, 1353.
Chadha, M.S. 929.
Chalfant, R.B. 869.
Chamblee, T.S. 1078.
Chamorro, C.A. 1198.
Champagne, E. 1206.
Chan, S.T. 1484.
Chan, F.-H. 442.
Chang, Y.-I. 745.
Chao, L.P. 865.
Chapa, B.E. 751.
Chaput, M.A. 383.
Charbonneau, T. 459.
Charles, L.A. 863.
Charlton, R.E. 914.
Charmil, P.-J. 911.
Charmil, P.J. 506, 908.
Charnock, D.J. 649.
Chase, I.F. 837.
Chase, R. 42, 873.
Chelnokov, A.A. 106.
Chenineau, P. 1354.
Chen, C.-C. 333.
Chen, C.C. 1052.
Chen, E.C.-H. 1068.
Chen, S.-L. 333.
Chen, Y.-S. 588.
Chenoweth, E. 453, 458.
Chenoweth, D.E. 439, 1209, 1219.
Chester, J.F. 1220.
Cheung, A.T.W. 78.
Chhabra, B.R. 310.
Chikazawa, S. 81.
Childs, J.E. 1264, 1265, 1266.
Chintamani, M. 2.
Chir, A.A. 935.
Chisholm, M.D. 601, 602, 665.
Chitwood, R.L. 299.
Chiusa, P. 727.
Choi, H.S. 360.
Cholot, R. 313.
Chong, L.J. 1287.
Chow, Y.S. 615, 1275, 1313.
Christensen, P. 109.
Christman, J.W. 79.
Christophers, E. 465.
Christophers, N. 1218.
Chu, Y.-I. 587, 588.
Chuman, T. 543, 545, 895.
Cianciolo, G.J. 1205.
Ciesielski, L. 767.
Clupe, H. 1331.
Clark, B.C., Jr. 1078.
Clark, L. 761.
Clark, R.A.F. 473.
Clark, R.J. 314.
Clayton, M.N. 1227, 1255.
Clearwater, J.R. 1262.
Clemente, J. 412.
Clerici, N. 412.
Coaker, T.H. 559.
Coast, J.R. 22.
Cocke, R. 1033.
Coffelt, J.A. 805.
Cohen, E. 381.
Cohn, M. 441.
Cole, D. 413.
Cole, W.M. 334.
Coll, J. 563.
Collin, H.A. 1495.
Collins-Thompson, D.L. 1103.
Collins, G.G.S. 15, 757, 758.
Collins, W.W. 293.
Collo Sanchez, L. 1168.
Colombo, N. 410.
Conner, W.E. 136, 1127.
Constanti, A. 9.
Conti, B. 970.
Cook, A. 577, 948.
Cooper, H.M. 221.
Cooper, S.J. 1149.
Cooper, W.E., Jr. 1010, 1035.
Coopersmith, R. 768, 1178.
Cooper, M. 1439.
Cooperand, J. 1206.
Cordonnier, R.E. 1056, 1057.

Author Index

- Cork, A. 146, 544.
Cornell, W.E. 1080.
Cornio, J.F. 963.
Corriu, I. 1331.
Corradini, C. 1480.
Correnti, A. 1253.
Cortellini, L. 1444, 1445.
Costa Leonardo, A.M. 810.
Costa-Pierce, B.A. 944.
Costa, L.G. 1016.
Cotter, H. 100, 858.
Cottrell, T.H.E. 1475.
Covey, H.M. 593.
Coudouhji, M.K. 452.
Covian, M.R. 270.
Coward, B.J. 1162.
Coward, J.J. 657.
Craven, N. 856, 1221.
Crawe, R.M. 912.
Crichtley, B.R. 201.
Crijlar, R. 1131.
Croft, B.A. 952.
Croll, R. 90.
Cross, D.A. 468.
Crouzet, J. 296.
Crovetti, A. 1125.
Cruikshank, W.W. 471.
Crump, D.R. 661, 1380.
Csato, M. 72.
Culp, L.A. 102.
Cumby, R.J. 1440.
Cunha, F.O. 1217.
Cunningham, D.G. 715.
Cunningham, F.E. 341.
Cunningham, L.A. 1373.
Cunningham, T.R. 593, 600, 1323.
Cuperus, P.L. 421.
Curl, C.L. 358.
Curtis, L. 659.
Curzio, M. 73.
Cushing, B.S. 268.
Cutforth, T.L. 524.
Cymborowski, B. 926.
Czarnetzki, B.M. 69, 124, 470.
Czinn, S.J. 836.
Czyzewska, E.K. 1300.
- Da Cruz Landim, C. 810.
Dagel, N. 1462.
Dahinden, C. 95.
Dahl, D. 51.
Dahl, M.K. 484.
Dahlgren, C. 80.
Dahlquist, F.W. 127.
Dainty, R.H. 722.
Dally, M.R. 1365.
Damon, R.A. Jr. 494.
Dang, C.V. 485.
Daniele, R.P. 74.
Danilov, V.S. 1238.
Datta, A. 84.
Dauber, J.H. 79.
Daudova, T.I. 1058.
Daughtery, N.A. 478.
Daukas, G. 855.
Davidson, T.L. 648.
Davis, E.E. 510, 560.
Davis, F.M. 1257, 1343.
Davis, H.G. 504.
Davis, R. 933.
Davis, S.F. 1373, 1376.
Davis, T.L. 516.
Dawley, E.M. 1384.
Dawley, R.M. 1384.
Day, A. 539, 901.
Day, R.K. 544.
De Angelis, S. 1439.
De Guzman, D.L. 733.
De Kramer, J.J. 1.
De La Torre, J. 1182.
De Paz, P. 1198.
De Terrenos Sanchez, F.J.G. 1168.
De Vol, D.L. 358.
De Vos-Korthals, W.H. 254.
De Wit, R.J.W. 489.
Deans, E.A. 1423.
Debar, G.L. 881.
Debrezenni, M. 114.
Decalonne, J. 1478.
Deems, D.A. 19, 650.
Degorce-Dumas, J.R. 1471.
Deierkauf, M. 92.
Deinzer, M.L. 688.
Delamarat, A.R. 1021.
Delcour, J.A. 1065, 1106.
Delino, G. 973.
Delle Monache, F. 561.
Delrio, G. 1324.
Dernaepe, F. 311.
Demble, E.D. 1383.
Demott, W.R. 947.
Dempson, J.B. 1037.
Den Otter, C.J. 755.
Den Otter, W. 82.
- Derk, L.A. 878.
Des, S. Thomas, D. 123.
Descoings, C. 915.
Dessi-Fulgheri, F. 1139.
Dev, D.K. 717.
Devreotes, P. 1225.
Devreotes, P.N. 871.
Deyreux, A. 1089.
Dewhurst, D.G. 758.
Dhall, K. 84.
Dhanaraj, N. 1418.
Di Prisco, G.V. 3, 1142.
Diamond, R.D. 476.
Dionani, M.U. 73.
Diaper, J. 1452.
Diaz, C. 799.
Dicke, M. 1305.
Dickens, J.C. 379, 576, 1257.
Dickerson, W.A. 958.
Diez, R.A. 463.
Dill, C.W. 1110.
Dinarello, C.A. 796.
Ding, Y.-S. 892, 1249.
Dirnack, P. 1291.
Distel, H. 230, 1029.
Divies, C. 327.
Dix, M.E. 186.
Dobkin de Rios, M. 237.
Dobler, G. 1327.
Dobzy, A. 72.
Dodd, M. 1372.
Doelle, H.W. 277.
Doeving, K.B. 656, 658.
Dohse, L. 182.
Dollahite, J. 1018.
Dominic, C.J. 214, 1358.
Donaidson, J.M.I. 1276.
Donaidson, J.C. 34.
Dondeyne, P. 1065, 1106.
Donohower, R.C. 787.
Donnell, D.J. 569.
Doolittle, R.E. 186, 907.
Dore-Duffy, P. 34.
Dore, J.-C. 147.
Dorice, J.G. 542.
Doty, R.L. 27, 662, 792, 1157.
Dougherty, R.W. 447.
Douglass, L.W. 538.
Dover, P.W. 929.
Dovgilevich, E.V. 302.
Drapeau, J.-P. 605.
Drawett, F. 279, 1060.
Drenowski, A. 35.
Driscoll, L.C. 215, 223.
Driscoll, N.R. 362.
Drozdzowska, J. 625.
Du Merle, P. 592, 963.
DuBois, G.E. 732.
Dudley, C.D. 344.
Duer, P. 1097.
Duffy, K.A. 263.
Dugan, J.P. 108.
Dulley, J.R. 1085.
Dumini, J.-M. 1470.
Dunham, D.W. 825.
Dunkelblum, E. 1368.
Dunn, G.C. 1365.
Dunn, H.C. 1071, 1094.
Dunsenberry, B.D. 742.
Durillon, M. 311.
Dusababek, F. 1280.
Duval, D. 652.
Dyer, A.B. 1372.
Dyrs, J.A. 632.
Dzendolet, E. 797.
- Eastlund, T. 459.
Eberhardt, R. 291.
Eckert, R.S. 1413.
Economopoulos, A.P. 971, 1326.
Eddy, C.L. 712.
Edinger, W.D. 728.
Edior, A. 441.
Edwards, R.A. 722.
Eggen, D.A. 599.
Egorov, I.A. 1058.
Egorov, N.S. 302.
Eibel, H. 370.
Eichberg, J.W. 17.
Eichhorn, M.K. 1409.
Eichlin, T.D. 880.
Eidmann, H.H. 1293, 1303, 1307.
Elkum, A.S. 1450.
Elinhorn, J. 915.
Eisemann, C.H. 507.
El-Adi, M. 1332.
El-Hachour, M.A. 736.
El-Latif, A.A. 1100.
El-Zanfaly, H.T. 1100.
El-Zayat, A.I. 1467.
Ellerker, J.G.R. 92.
Eltfman, F. 453, 458.
Ellasson, I. 109.
Elkins, R.L. 1020, 1025.
- Elilaard, A.K. 1285.
Ellard, E.G. 1285.
Ellingsen, O.F. 656.
Elmgreen, J. 87.
Elsharabasi, M. 1059.
Endo, F. 81.
Engen, T. 417.
Engler, J. 572.
Enkel, H. 860.
Enns, M.P. 788.
Enterline, J.P. 787.
Epple, G. 1007.
Erber, J. 126.
Erhard, H. 1189.
Ernst, K.-D. 1169.
Ervin, R.T. 596.
Esakov, A.I. 778.
Esbjerg, P. 984.
Escueta, E.E. 349.
Eskemazi, B. 789.
Espinoza, M.A. 412.
Esteban Turzo, P. 1443.
Esterbauer, H. 73.
Estevez, M.E. 463.
Esumi, Y. 1247.
Esumi, Y. 1247.
Egalt, P. 942, 1402.
Etcoorn, F. 1375.
Evans, D.D. 653.
Evans, M.R. 1423, 1441, 1456.
Evans, R. 1183.
Eveland, L.K. 1350.
Evard, Y. 785.
- Faas, W.E. 696.
Faber, L. 749.
Fables, R.A. 1166.
Fabre-Nys, C. 229.
Fadem, B.H. 827.
Fales, H.M. 565.
Fanselow, M.S. 1387.
Farg, A.I. 1325.
Farber, N.B. 65.
Farrington, D.O. 527.
Fatzinger, C.W. 197, 966.
Fedoseev, N.Z. 1240, 1241.
Fedrick, I.A. 1085.
Fell, D. 527, 529.
Fellers, P.J. 331.
Feltner, D. 77, 437.
Fennerty, A.G. 800.
Fentress, J.C. 1013, 1032.
Fenwick, G.R. 338, 1066, 1067, 1112.
Ferguson, A.W. 199.
Fernandez, J.G. 1198.
Ferreira, S.J. 1217.
Ferris, A.M. 37.
Ferris, C.F. 1370.
Fetting, J.H. 787.
Fiaschi, V. 1391.
Fidone, S. 404, 784.
Figueira, M.D. 1219.
Figler, M.H. 233.
Filadelfi, M.A. 1115.
Filippov, N.A. 1240.
Fillion, T.J. 627, 1005.
Filola, G. 1206.
Finger, D.E. 1166.
Finlayson, L.H. 177.
Finzi, A.F. 86.
Fischer, D.C. 807.
Fischer, J.R. 737.
Fischer, N. 1060.
Fischer, R.B. 263, 633, 1008.
Fisher, M.E. 955.
Fisher, R.C. 902.
Fitzgerald, E. 1113.
Fletcher, D.L. 737.
Fletcher, T.C. 1222.
Fleissner, J. 952.
Flint, H.M. 607.
Flood, P. 272.
Foa, A. 1385, 1392.
Font de Valdes, G. 1462.
Fontenay, P. 1470.
Forn, B. 1359.
Forza, E. 144.
Forsell, J.H. 449.
Foster, G.A. 51.
Foster, N.R. 212.
Fowler, A.A. 67.
Fowler, S.C. 466.
Franchina, J.J. 1372.
Franken, W. 191, 1050, 1237.
Frank, R.A. 28.
Frankie, G.W. 424.
Franklin, J.G. 735.
Franz, P. 9.
Fraser, J.M. 517.
Frazier, J. 511.
Frazier, L.L. 817.
Free, J.B. 199.
Freeman, W.J. 3, 1142.
Frei, P.C. 446.
Frey, J.P. 1466.
- Fried, B. 1349.
Friend, G. 789.
Fu, J.-K. 1404.
Fuchs, T.W. 567.
Fujino, M. 1247.
Fujisawa, T. 1039, 1049.
Fujita, K. 483.
Fujita, S.C. 50, 1174.
Fujita, T. 1154.
Fukami, H. 552.
Fukami, J.-I. 141.
Fukuhara, K. 679.
Fukui, S. 305, 691, 1074, 1228.
Fukumoto, M. 687.
Fukuoka, Y. 1075.
Fukushima, Y. 1072.
Fulenkamp, A. 263.
Funakoshi, M. 1153.
Furghang, D. 724.
Fushimi, A. 691.
- Gabal, V.L. 492.
Gacila, M.C. Jr. 371.
Gailley, D.A. 1268.
Gailreath, R.A. 1268.
Galef, B.G. Jr. 265.
Galletti, G.C. 675.
Galli, M. 113.
Gallois, A. 301.
Galun, M. 915.
Galpin, J. 1495.
Galun, R. 170, 500, 553.
Galvan, M. 9.
Games, D.E. 614.
Gammon, W.R. 96.
Gangrade, S.K. 214.
Garbino, H. 1146.
Garcia-Raso, A. 315.
Garcia-Rejon, L. 918.
Garcia, J. 19, 650.
Gardner-Medwin, D. 1216.
Gardner, P.D. 596.
Garg, S. 841.
Gassmann, G. 1205.
Gauthaman, G. 36.
Gaynor, D.L. 945.
Gennings, J.N. 46.
Gent, J. 37.
Gent, J. 37.
Gent, J. 37.
Gentry, C.R. 200.
George, D.A. 1330.
George, G. 98, 1207.
Geraud, D. 963.
Gerber, G.H. 1270.
Gerrath, J.F. 707.
Gessner, M. 683.
Ghezzi, P. 410.
Giacoma, C. 1362.
Giacometti, R. 167.
Giannotti, O. 527, 529.
Gibbons, R.J. 870.
Gibson, G. 571.
Giersch, W. 682.
Giesbrecht, F.G. 350.
Gifford, L.A. 442.
Giguere, P. 1041.
Giorgi, P. 1140.
Gill, C.O. 1491.
Gill, K. 1015.
Gillespie, D.W. 1372.
Gillott, C. 1340.
Ginsburg, I. 109.
Giorgi, P. 1140.
Giovanni, V. 196.
Girardon, P. 1400.
Girolami, V. 913.
Girolami, V. 913.
Giroud, J.-P. 834, 854.
Giroud, J.P. 857.
Glaser, H. 346, 1486.
Glagolev, A.N. 492.
Glaros, A.G. 1497.
Glaser, D. 17.
Glatz, B.A. 673.
Gleeson, R.A. 756.
Glor, J.B. 1264, 1265.
Goballe, S. 767.
Godke, R.A. 999.
Goetz, E.J. 442, 841.
Goh, Y. 385.
Goldblatt, A. 226.
Goldman, J.W. 534, 968.
Goldfarb, J. 103.
Goldman, D.J. 487.
Goldman, D.W. 442, 841.
Goldstein, I.M. 837.
Goldstein, M. 51, 53, 818.
Goldstein, N.I. 813.
Golebiowska, H. 103.
Golubtsov, K.V. 778.
Gomez, J. 460.
Gonder, J.C. 846.
Gonzaga, E. 727.
Gonzalez, C. 404, 784.
- Gonzalez, E. 784.
Gonzalez, J.L. 1282.
Gonzalez, J.M. 157.
Gonzalez, S. 444.
Goodman, M. 307.
Goodmann, R.A. 637.
Goodspeed, R.B. 37.
Gora, J. 669.
Gorczyca, E. 1093.
Gordon, K.D. 1152.
Gordon, N.M. 1108.
Gore, A.C. 220.
Gormley, T.R. 1478.
Gossensauer, H. 572.
Gothé, R. 423.
Gothi, K.K. 1318.
Gothilf, S. 170, 1368.
Gottlieb, D.I. 65.
Goudy-Parriss, F. 175.
Gougerot-Pocidalo, M.-A. 854.
Gough, A.E. 614.
Gouin, S. 31.
Gould, F. 163.
Gower, D.B. 46, 1164.
Grabbe, J. 69, 470.
Grady, M. 887, 1224.
Graham, C. 724.
Grant, A.J. 806, 1128.
Graves, B.M. 652.
Gray, J.I. 340.
Grec, V. 446.
Greip, J. 1495.
Greenberg, A.H. 460.
Greenwood, M.R.C. 35.
Gregor, T. 1157.
Gregory, E.H. 773.
Greiner, U. 1468.
Greim, H. 1146.
Gresser, A. 298, 713.
Grewal, I.S. 472.
Griffin, G.L. 496.
Griffiths, N. 1482, 1489.
Griffiths, N.M. 338, 735.
Griffiths, N.M. 338, 735.
Grill, H.J. 1193, 1194.
Grillner, S. 1202.
Grimont, P.A.D. 301.
Grinvald, A. 1082.
Grisham, M.B. 852.
Grochow, S. 787.
Groeneveld, A. 1305.
Grotendorst, G.R. 132.
Grunberg, N.E. 267.
Gubernick, D.J. 258.
Gueff, J.F. 452.
Guenther, B. 295.
Guerrero, M. 311.
Guerin, P.M. 498, 908, 909.
Gueule, D. 1474.
Guevara-Aguilar, R. 13.
Gueib, R.A. 949.
Guerrero, A. 1175.
Guinard, J.-X. 1483.
Gulyakov, M.B. 776.
Gunata, Y.Z. 1056, 1057.
Gunderson, J.H. 876.
Gunter, M. 282.
Gupta, S.K. 1105.
Gurnea, C.G. 416.
Gush, T.J. 612.
Guss, P.L. 185, 1269.
Gussio, R.P. 233.
Gutierrez-Martinez, A. 1284.
Guyot, B. 1474.
Gyrd, G. 1208.
- Hadfield, M.G. 990.
Hafstrom, I. 112.
Hagedorn, M.L. 294, 711.
Hagler, L.S. 1375.
Hagwara, Y. 240.
Hagress, A.E.A. 736.
Hajdu, I. 369.
Hakim, J. 854.
Hales, N. 53.
Hall, F.R. 146, 172, 198, 544.
Hall, F.R. 194, 802, 1263.
Hall, J.E. 1268.
Hall, J.E. 1263.
Hall, P. 178.
Halloran, F.J. 1182.
Halperin, J. 1336.
Halperin, B.P. 790.
Halpin, Z. 249.
Hama, K. 59.
Hamamura, N. 1460.
Hamann, D.D. 350.
Hamilton, J.G.C. 614.
Hammark, L. 1259.
Hammar, Y.A. 736.
Hammond, E.G. 673.
Hanai, K. 1271.
Hancock, M.R. 46.
Handrich, L.S. 775.

- hands, C. 1371.
 Haniotakis, M. 1158.
 Haniotakis, G. 974.
 Haniotakis, G.E. 1310.
 Hanley, A.B. 1066, 1067, 1112.
 Hanna, M.H. 122.
 Hannah, A.L. 841.
 Hanks, E. 429.
 Hanssen, I. 726.
 Hansson, B.S. 885.
 Hantula, J.L. 881.
 Hantus, U. 406.
 Hara, T.J. 1183.
 Harada, K. 558, 950, 1382.
 Hardsick, I. 1310.
 Hardin, R.T. 357.
 Hardwick, D.C. 1426.
 Hardwick, W.A. 730.
 Haro, L. 696.
 Harper, J. 1368.
 Harper, A.E. 394.
 Harrison, A.E. 851.
 Harrington, F.H. 1013.
 Harrison, E.G. 902.
 Harrison, H.C. 332.
 Hart, W.G. 536, 751, 905.
 Hata, E.M. 1322.
 Hartmann, D.-P. 440.
 Hartung, J. 1457.
 Harvey, S. 222, 623.
 Haseeb, M.A. 1350.
 Hasegawa, S. 323.
 Hassanello, A. 953, 967.
 Haston, W.S. 85.
 Hasumoto, M. 131.
 Hataguchi, Y. 59.
 Hatakoshi, M. 1048.
 Hatfield, S.G.S. 677.
 Hathaway, D.G. 1330.
 Hattingh, M.J. 1231.
 Havukkala, I. 617.
 Hawes, C.S. 104.
 Hawrysh, Z.J. 357.
 Hay, M.E. 949.
 Hayashi, H. 467, 866, 872.
 Hayashi, S. 216.
 Hayden, B. 237.
 Hayes, W.F. 1201.
 Hayishi, K. 689.
 Haynes, K.F. 143, 152, 535.
 Haynes, R. 17.
 Haynes, T.B. 468.
 Hayunga, E.G. 1352.
 Hazarika, M. 286.
 Hazlett, B.A. 616.
 Heath, H.B. 372.
 Heath, R.R. 530, 537, 591, 986, 1261, 1282, 1312, 1342, 1492, 1493.
 Hed, J. 80.
 Hedin, P.A. 670, 1257, 1289.
 Hefetz, H.B. 337.
 Hefetz, A. 620.
 Heimer, L. 54, 428.
 Heilekant, G. 17.
 Hellngl, V.K. 1319.
 Hellung-Larsen, P. 117.
 Hempstead, J.L. 45.
 Henderson, L.E. 840.
 Hendricks, D.E. 1249.
 Hendricks, D.G. 362.
 Henkin, R.I. 431.
 Hennick, C. 664.
 Henry, R. 1402.
 Henson, J.E. 79.
 Henson, P.M. 67.
 Hereszyn, T. 1092.
 Herlin, T. 835.
 Herman, Z. 323.
 Hermite, M.L. 1499.
 Herness, M.S. 396.
 Herrero, A.M. 1443.
 Herrmann, B. 572.
 Herz, A. 253.
 Heth, C.D. 1019.
 Heusinger, G. 683.
 Heverly, R.N. 1713.
 Hewlett, E.L. 438.
 Hibbard, C.M. 722.
 Hidaka, I. 377.
 Hidaka, T. 900.
 Hihout, H.F. 613.
 Hildebrand, C. 1176.
 Hildebrand, J.G. 801.
 Hill, A.R. 1335.
 Hill, A.W. 856.
 Hill, L.H. 98, 1207.
 Hinderichter, C.F. 259, 1023.
 Hino, M. 1134.
 Hirano, C. 521.
 Hirashima, M. 467.
 Hirooka, Y. 1244.
 Hirota, N. 129, 782.
 Hiroy, T. 903.
 Hjelmeland, M. 132.
 Ho, C.-T. 290, 313, 711.
 Hobbs, S.H. 1020.
 Hodgson, A.N. 1297.
 Hoebeus, E. 909.
 Hoegberg, H.-E. 671.
 Hoekflett, T. 53, 818.
 Hoelldobler, B. 621.
 Hofer, M.A. 23.
 Hoffman, D. 680.
 Hoffmann, A.A. 174, 610.
 Hoffmann, M.P. 1260, 1321.
 Hoffmeyer, I. 235.
 Hori, A.A. 738.
 Hokimoto, K. 139.
 Hokenohara, M. 101, 409.
 Holley, A. 12.
 Holley, R. 1102.
 Holley, R.A. 1490.
 Hollywood, N.W. 277.
 Holst, D.V. 244, 245.
 Homsher, P.J. 510.
 Honda, H. 1042.
 Honda, K. 1256.
 Honda, M. 81.
 Honda, N. 1039.
 Honda, Y. 783.
 Hong, D. 97.
 Hong, Z. 748.
 Honig, A. 406.
 Hood, L.F. 349.
 Hood, R.D. 702.
 Hooper, C. 453, 458.
 Hopkins, G.M. 1421.
 Hori, Y. 88, 457, 483, 848.
 Horiki, H. 44, 392.
 Hornung, D.E. 788.
 Horvat, R.J. 287, 738.
 Hosny, M.M. 201.
 Houtman, H. 1197.
 House, F.R. 1164.
 Howard, T.H. 861.
 Howell, S.E. 473.
 Howes, E.L.J. 860.
 Howlader, M.A. 1270.
 Howse, P.E. 936.
 Hsieh, L. 842.
 Huang, J.S. 496.
 Huang, U.W. 220.
 Hudson, M. 1420.
 Hudson, R. 220, 1029.
 Huettel, R.N. 151.
 Huhtinen, S. 746.
 Humes, P.E. 999.
 Hummel, H.E. 204.
 Hunninghake, G.W. 464.
 Hunt, D.W.A. 1300.
 Hunt, C.T. 1223.
 Huopalahti, R. 1398.
 Hurter, J. 906.
 Huss, H.H. 328, 329.
 Hutchinson, J.H. 1046.
 Huxy, P. 835.
 Hyers, T.M. 67.
 Hyonen, L. 1482.
 Iacobucci, G.A. 1078.
 Iacovone, C. 189.
 Ibrahim, A.A. 1100.
 Ichikawa, H. 393.
 Ichikawa, Y. 1247.
 Ide, J. 689.
 Idnis, M. 1012.
 Idstein, H. 278, 297.
 Igene, J.O. 340.
 Iino, M. 7.
 Ikeda, H. 239.
 Ikeda, I. 1382.
 Imazumi, M. 828.
 Imamura, K. 7, 50, 58, 1174.
 Imamura, J.K. 366.
 Iku, K. 1274.
 Ingersoll, D.W. 630, 1371.
 Ingle, U.M. 717.
 Inman, A.O. III. 96.
 Introna, M. 113.
 Isole, P. 1389, 1392.
 Ioneda, T. 527, 529.
 Iqbal, H. 927.
 Iqbal, Q.J. 547, 927.
 Irye, R. 1040.
 Isaac, W.L. 645.
 Ishida, Y. 759.
 Ishiguro, S. 1061.
 Ishii, A. 88, 457, 848.
 Ishii, K. 116.
 Ishikawa, Y. 554.
 Ismail, M.H. 823.
 Ismailov, A.D. 1238.
 Isoldi, L. 976.
 Istvan, H. 1464.
 Itagaki, H. 136, 1127.
 Ito, S. 397.
 Ivantitskii, G.R. 493.
 Ivanova, S.N. 425.
 Iverius, P.H. 35.
 Iwabuchi, K. 501, 1043.
 Iwasaki, K. 18.
 Izuagbe, Y.S. 1053.
 Jackson, L.L. 564, 568.
 Jackson, R. 1254.
 Jackson, R.L. 647.
 Jacobsson, U. 1303.
 Jaenicke, L. 1226, 1227.
 Jaenicke, W.B.L. 1255.
 Jaffe, A.J. 1497.
 Jaffe, K. 546, 1286, 1295.
 Jakovitch, W., Jr. 575.
 Jakoi, L. 859, 863.
 Jallion, J.-M. 516.
 Janco, R.L. 443.
 Janikashvili, M.I. 1416.
 Janssens de Varenbeker, D. 1106.
 Janssens, P.M.W. 490, 874.
 Jansson, H.-B. 494.
 Jandak, T. 977.
 Jasinski, E. 690.
 Jastrorff, B. 1225.
 Jastreboff, P.J. 819.
 Jay, M. 1214.
 Jayachandran, L. 36.
 Jayalekshmy, A. 1055.
 Jeanne, R.L. 205.
 Jemilo, B. 222, 623.
 Jennings-White, C. 32, 313.
 Jennings, D.T. 1316.
 Jennings, W. 229.
 Jennum, P.A. 1121.
 Jeon, I.J. 280.
 Jeon, M.M. 201.
 Jesaitis, A.J. 95.
 Jesaitis, R.K. 95.
 Jeyaparakash, A. 494.
 Jiang, Z.-Y. 1147.
 Jin, Q.Z. 290, 313.
 Jinyang, C. 666.
 John, C. 89.
 Johnson, P.B. 658.
 Johnson, G.L. 1455.
 Johnson, G.R. 1122.
 Johnson, M.E. 1466.
 Johnson, M.S. 486, 1233.
 Johnston, R.E. 1363.
 Joly, D. 643.
 Jones, A.J. 210.
 Jones, C.G. 1379.
 Jones, H.P. 522.
 Jones, J.T. 865.
 Jones, O.T. 969, 972.
 Jones, R.L. 1316.
 Jones, W.R. 104.
 Jooste, P.J. 1472.
 Jorgenson, J.W. 1004.
 Josephson, D. 300, 1101.
 Jourdan, F. 221.
 Juhasz, O. 1098.
 Junod, P. 964.
 Jurs, P.C. 1007.
 Kadas, L. 369.
 Kagan, E. 440.
 Kahol, A.P. 1415.
 Kahoro, H.M. 2.
 Kainoh, Y. 903.
 Kallio, H. 285.
 Kalo, P. 1239.
 Kalogridou-Vassiliadou, D. 335.
 Kalis, P.S. 310.
 Kamm, J.A. 898.
 Kampselacher, E.H. 734.
 Kaneshiro, K.Y. 20.
 Kanazaki, R. 808.
 Kapoor, N.N. 40.
 Kapp, I.B. 750.
 Karapoli, U. 1216.
 Karahadian, C. 510.
 Karalius, V. 305.
 Kare, M.R. 29.
 Karten, H.J. 1191.
 Karvanen, L.N. 549.
 Kashwayanagi, M. 11.
 Kataoka, M. 99.
 Katsley, J.R. 449.
 Kato, H. 691.
 Kato, M. 666, 668.
 Kato, T. 26.
 Katsyannovs, B.I. 1250.
 Katsin, U. 676.
 Kaufmann, W. 1111.
 Kausler, T. 324.
 Kawakami, K. 101, 409.
 Kawamoto, M. 1061.
 Kawamura, Y. 136.
 Kawasaki, K. 238, 533.
 Kays, S.J. 738.
 Kearn, G.C. 1348.
 Keeping, M.G. 912.
 Kehoe, P. 224.
 Keil, T.A. 422.
 Kelkelde, N.A. 1416.
 Kellard, B. 336.
 Keller, H. 858.
 Keller, H.-U. 94, 100, 107.
 Keller, J. 642.
 Keller, K.H. 867, 1224.
 Keller, T. 297.
 Kelley, J.L. 466.
 Kelley, R.S. 599.
 Kelling, S.T. 790.
 Kelly, J. 495.
 Kelly, K.S. 645, 1022.
 Kemble, E.D. 1374.
 Kennedy, T.L. 862.
 Kermode, J.C. 128.
 Kersulis, G. 845.
 Kesava Rao, V. 348.
 Keshri, R.C. 348, 361, 1487.
 Kessler, H.G. 370.
 Keverne, E.B. 14, 211, 229.
 Key, S.E.V.V. 932.
 Khalafallah, H. 977.
 Khalil, N. 460.
 Khan, T.Y. 1190.
 Khan, Z.A. 579.
 Kharazmi, A. 843.
 Khidir, A.A. 201.
 Kiepenheuer, J. 1388.
 Kiesel, K. 603.
 Kilara, A. 690.
 Kim, I.-K. 831.
 Kimsey, H.R., Jr. 739.
 Kimura, T. 240, 832.
 Kinsman, L.J. 336.
 King, B. 1140.
 King, G. 1208.
 King, G.G.S. 524, 1300.
 King, J.M. 264.
 Kinyan, L.P. 330.
 Kinomura, K. 305, 1074.
 Kinsella, L.R. 1338.
 Kis-Tamas, A. 667.
 Kitada, C. 1247.
 Kitajima, M.A. 1271.
 Kitamura, T. 520.
 Kitoh, J. 377.
 Kiyohara, S. 377, 1196, 1197.
 Kleene, S.J. 368.
 Klein, J.A. 365.
 Klein, W.L. 426.
 Kleisius, P.H. 448, 468, 838.
 Klijnsma, J.W. 804, 896, 1322.
 Klimetzek, D. 982.
 Kline, N.A. 786.
 Klingenberg, D. 674.
 Klinger, I. 1447.
 Klinghammer, E. 837.
 Kloepper, J.W. 869.
 Klug, J.T. 953.
 Kuhn, J.A. 158, 539, 894, 901, 924, 954, 1267.
 Knauf, W. 597.
 Knee, M. 677.
 Knight, A.L. 952.
 Knight, D.W. 1344.
 Knoechel, S. 328, 329.
 Knutson, A.E. 1257, 1343.
 Kobatake, Y. 131.
 Kobayashi, H. 385, 759.
 Kocaneky, J.P. 939.
 Koe, L.C.C. 459.
 Koester, E.P. 1451, 1453.
 Kogan, M. 807.
 Kohnle, U. 144, 191, 1237.
 Kohno, M. 543, 545, 895.
 Kokini, L.T. 1107.
 Kokkalis, T.I. 1119.
 Kokwaro, E.E. 2.
 Koller, W.D. 1399.
 Kondiah, N. 356.
 Konijn, T.M. 489.
 Konno, M. 1072, 1118.
 Kopp, S. 1237.
 Korchmar, D.L. 28.
 Korczynska, M. 103.
 Korenaga, M. 1213.
 Korotai, S. 1468.
 Korkala, S. 123.
 Kosaka, T. 599.
 Kosar, E. 1193, 1194.
 Kosfeld, U. 465.
 Koshtand, D.E., Jr. 128, 135.
 Kosikowski, F.V. 360, 710.
 Kossmann, M. 130.
 Kovacs, T.G. 322.
 Kovalev, B. 881.
 Kovalev, B.G. 1240, 1241.
 Kovalev, B.G. 1238.
 Kowaka, M. 1075.
 Kowalskawa, J. 673.
 Koyama, J. 803.
 Kozawa, M. 687.
 Kozrakis, M. 1030.
 Kramer, P.J. 1214.
 Kraft, L. 987.
 Kragballe, K. 835.
 Kramer, S. 701.
 Krampf, F. 522.
 Kranz, G. 406.
 Kratskin, I.L. 770.
 Krause, K.-H. 1428.
 Kreis, A. 1073.
 Krieg, T. 115.
 Krinski, V.I. 493.
 Krishnananda, N. 187.
 Kristiansen, E. 843.
 Krizkova, L. 164.
 Krumm, K. 110.
 Kroodma, I.W. 4234.
 Kruijt, J.P. 513.
 Kruse, J.M. 1021.
 Krushalov, N.B. 764.
 Krysan, J. 185, 1269.
 Kuba, H. 505.
 Kubo, I. 581.
 Kucharski, D. 257, 260.
 Kudon, L.H. 1314.
 Kuonen, P.L.S. 890.
 Kuhlbandner, B. 36.
 Kuhlmann, A. 723.
 Kulikov, N.S. 302.
 Kullaa-Mikkonen, A. 1163.
 Kumar, A. 729.
 Kumar, H.D. 119, 1232.
 Kuroki, T. 1148.
 Kunitomo, M. 1214.
 Kuo, J.C. 364.
 Kuo, M.-C. 333, 1052.
 Kuramoto, H. 1154.
 Kurata, T. 1403.
 Kurthara, K. 1230.
 Kurthara, K. 11, 777.
 Kurumko, L.G. 419.
 Kusel, J.R. 865.
 Kuswadi, A.N. 141.
 Kuusi, T. 1063, 104.
 Kuyama, Y. 142.
 Kwon, J.H. 304.
 La Croix, E.A.S. 583.
 Laboudi, M. 977.
 Lacaille, R.C. 1268.
 Lacey, M.J. 210.
 Lacey, T.E. 1287.
 Lachaud, J.P. 937.
 Lachman, A. 170.
 Ladd, P.M. 472.
 Ladd, T.L., Jr. 184, 185, 1276, 1278.
 Ladowsky, R.L. 644.
 Laguna Martinez, R. 1168.
 Lahav, M. 109.
 Lahraug, P. 1206.
 Laing, D.G. 1160, 1482.
 Laing, J.E. 526.
 Laio, K. 1464.
 Laley, C.L. 1102.
 Laley, L.C. 190.
 Lam, K.C. 688.
 Lamb, R.C. 1469.
 Lambert, M.P. 426.
 Laming, P.R. 1184.
 Lamm, G.E. 454.
 Lamm, M.E. 835.
 Lancaster, V.K. 162.
 Lancet, D. 429.
 Landolt, P.J. 530, 1312, 1342.
 Lane, G.A. 569.
 Lane, R.F. 718.
 Lane, T.A. 454.
 Langley, W.M. 1373.
 Lanier, G.N. 599, 910, 941, 1301.
 Lanne, B.S. 532, 885.
 Lapetina, E.G. 447.
 Large, T.H. 426.
 Larson, M.A. 225.
 Lasaracina, E. 90.
 Lasaracina, R. 1378.
 Laster, P.S. 19.
 Laskin, D.L. 832.
 Lategan, P.M. 1472.
 Latrasse, A. 678, 1402, 1411, 1471.
 Lauffenburger, D. 867, 1224.
 Lauffenburger, D.A. 74.
 Launay, J. 630.
 Laundgren, B. 1462.
 Laurence, B.R. 158.
 Lavanchy, P. 1109.
 Lavelle, J.P. 108.
 Laverack, M.S. 1200.

Author Index

- Laveri, L.A. 56.
Lavine, B. 1007.
Lavoie-Dornik, J. 183, 590.
LaVoie, E.J. 680.
Law, B.A. 1079.
Law, S. 431.
Law, P. 475.
Lawless, H.T. 793.
Lawrence, B.M. 312, 313, 692, 695, 697, 698, 701, 1077.
Laws, E.A. 944.
Lawton, J.W.M. 411.
Lazaro, I. 412.
Lazzarin, A. 113.
Le Quere, J.L. 1411.
Leal, H.R. 146.
Leconte, C. 752, 934, 1234, 1306.
Lee, B.H. 1102, 1490.
Lee, C.K. 1484.
Lee, D.A. 724.
Lee, J.-K. 380.
Lee, R.R., Jr. 949.
Lee, S. 1178.
Lee, T.M. 229, 231.
Legner, E.F. 935.
Leibensperger, L.B. 517.
Leick, V. 117.
Leid, R.W. 455, 1215.
Leither, L.-M. 402.
Lelana, I.Y. 1485.
Lemaire, M. 202.
Lemly, A.D. 1036.
Lemm, C.A. 1034.
Lenz, S. 1308.
Leon, M. 769, 1178, 1181.
Leonard, E.J. 68, 840.
Leong, Y.H. 1484.
Leonhardt, B.A. 539, 600, 894, 901, 924, 954, 1260, 1267, 1273, 1323.
Leppla, S.H. 438.
Lepri, J.J. 219.
Leveau, J.Y. 1471.
Levinson, A.R. 190, 919, 1245.
Levinson, H.Z. 919, 1245.
Levitov, C. 132.
Levy, F. 1354.
Lewis, M.J. 1483.
Lewis, S.L. 1209.
Lewis, W.J. 899, 992.
Ley, S.V. 173.
Leyva-Cobian, F. 412.
Lezroff, C.C. 1047.
Li, W. 535.
Liapopoulos, C. 974.
Libby, L.M. 523.
Liden, S. 76.
Lin, J.C.C. 280.
Lin, Y.M. 615.
Lindahl, K.Q., Jr. 570.
Lindelow, A. 608.
Lindenberger, P.M. 78.
Lindroth, S. 723.
Lindsay, R.C. 300, 373, 1070, 1094, 1101.
Lindvall, T. 408.
Ling, L.C. 176.
Linko, R.R. 285.
Linn, C.E., Jr. 155, 528, 911.
Lipchitz, D. 912.
Lisk, J.C. 969.
Lisk, R.D. 220.
Litman, I. 743.
Liu, I.K.M. 78.
Liu, S.-E. 1052.
Lobo, E. 458.
Lochynski, S. 669.
Lodi, L. 1139.
Loefqvist, J. 528, 532, 885, 1292.
Loefstedt, C. 528, 532, 885.
Logan, D.M. 1339.
LoLordo, V.M. 1021.
Loneragan, G.C. 754, 1338.
Looman, A. 317.
Lopes da Silva, F.H. 1188.
Lopez, J.D. 1267.
Loschiavo, S.S. 609.
Lovell, R.T. 1485.
Lu, C.-Y. 587.
Lubin, L.B. 725.
Luck, R.F. 993.
Ludnikova, T.A. 303.
Ludvigson, H.W. 1377.
Lupo, C. 1139.
Lusby, W.R. 566, 939.
Lush, E. 780.
Luthy, R.G. 1404.
Lynch, W.C. 779.
Lyon, B.G. 738.
Ma, J. 436.
Maarse, H. 1054.
Mabesa, L.B. 733.
Mac-Chuah, M.M. 561.
Macdonald, D.W. 250, 252, 374.
MacDonald, J.A. 1172.
MacArthur, J.S. 75.
Mackay-Sim, A. 997, 1355.
Mackey, B.E. 137.
Mackey, W.B. 642.
Mackie, A.M. 1151.
Mackintosh, J.H. 638.
Mackley, J.W. 1296.
MacLeod, A. 1401.
MacLeod, A.F. 1465.
MacLeod, P. 766.
MacLeod, T.M. 75.
Madeira, K. 347.
Madhusudan, K.P. 1055.
Maeda, Y. 1229.
Mahajan, S.K. 414.
Mahanta, P.K. 296.
Mahler, K.O. 703.
Maier, I. 882.
Mair, R.G. 389.
Mairwald, K.D. 1453.
Makuev, A.M. 1058.
Malacarne, G. 1362.
Malamud, D. 109.
Malik, M.M. 161.
Malin, G. 488.
Malic, A. 1284.
Malt, R.A. 1220.
Manabe, S. 514, 1132, 1252.
Manavathu, E.K. 123.
Manciar, C.R. 120.
Mandel, P. 767.
Mandell, G.L. 438.
Mangioni, C. 410.
Mani, E. 498, 584.
Mani, K. 709.
Mannebeck, H. 1431.
Manson, M.D. 130, 484.
Manto, A. 476.
Mantovani, A. 113, 410.
Marais, P.G. 1231.
Marasco, W.A. 77, 83, 432, 437.
Marchaim, U. 1447.
Marchlewski-Koj, A. 623, 625.
Mardin, M. 69.
Marengo, R.M. 959.
Margen, S. 478.
Margolis, F.L. 814.
Margolis, S.E. 762.
Marino, J.A. 102.
Marks, E. 791.
Marlin, S. 1021.
Marmer, D.J. 1210.
Marner, F.-J. 1227.
Marois, J. 321.
Marsh, M.L. 845.
Marshall, V.M. 834.
Marsili, R. 1069.
Martens, M. 1481.
Marth, E.H. 1466.
Martin, A.D.E. 677.
Martin, N.L. 1365.
Martin, T. 1197.
Maruyama, S. 558.
Maruyama, Y. 1042.
Maschwitz, U. 1308.
Masia, A. 913.
Mason, F.D. 639.
Mason, J.R. 262, 761, 769.
Mason, P.G. 1337.
Mason, P.L. 1212.
Massabau, J.C. 20.
Masschelein, C. 1463.
Masson, C. 942.
Mastaglio, F.L. 1216.
Mata, M.S. 975.
Mathew, A.G. 1055.
Matsuda, I. 81.
Matsuda, K. 1061.
Matsu, N. 900.
Matsukura, M. 1061.
Matsumoto, K. 1342.
Matsumoto, T. 581.
Matsumoto, Y. 554, 1042.
Matsumo, H. 160.
Matsuo, N. 1048.
Matsuo, R. 26.
Matsuo, S. 393.
Matsushita, H. 1061.
Matsushita, K. 514.
Matsuyama, Y. 687.
Matthews, R.W. 157.
Matsumoto, M.P. 611.
Matyas, L. 1442.
Matzner, Y. 109, 441.
Mauersberger, H. 24.
Maupetit, P. 313, 316.
May, B. 227.
Maycock, V.A. 267.
Mayr, J.J. 1369.
Mazet, M. 547.
Mazur, R. 592.
Mazor, M. 170.
Mazurina, N.A. 419.
McAllister, K.H. 251.
McArthur, C.R. 1047.
McBride, R.L. 482.
McCall, R. 456.
McCord, J.M. 852.
McCoy, D.F. 1022.
McDonald, D.F. 414.
McDonough, L. 1321.
McDonough, M. 504, 1260.
McDowell, P.G. 542, 967.
McGinnis, D.S. 1212.
McGovern, T.P. 600, 1276, 1283, 1323.
McGregor, J.U. 1114.
McKeith, F.K. 358.
McKibben, G.H. 566.
McLain, D.K. 266.
McLean, J.A. 585, 586.
McLellan, M.R. 1475.
McMorris, T.C. 497.
McNally, P.L. 1110.
McNair, K.W. 740.
McPhail, L.C. 859.
McQueen, D.S. 405.
McRobbie, S.J. 118, 121.
McVeigh, E.M. 201.
McVeigh, L.D. 201.
Meachum, D.L. 1017.
Meade, B.D. 294, 711, 1051.
Meakins, J.L. 1218.
Mech, L.D. 996.
Medeiros, C.L. 344.
Mehean, K. 792.
Meguro, H. 44, 392, 1072, 1118.
Mehta, J. 435.
Meighen, E. 888.
Meinders, M. 1255.
Meinel, V.W. 1189.
Meinwald, J. 891, 1264.
Meisami, E. 1141.
Meiselman, H.L. 790.
Meisner, J. 930.
Mejer, G.-J. 1428, 1435.
Meinick, D. 476.
Menary, R.C. 314.
Menico, B.P.M. 43.
Mendel, V.E. 641.
Mendoza, A.S. 1179.
Mengelkoch, L.J. 1261, 1493.
Menon, M. 812.
Mensing, H. 93, 115, 142, 469.
Meredith, M. 1136.
Merron, M. 862.
Mertl-Millhollen, A.S. 637.
Meshulam, T. 476.
Messinova, O.V. 302.
Messzaros, G. 1442, 1448.
Metcalfe, R.L. 940.
Meunier, G.F. 633, 1008.
Meyer, G. 820, 821.
Meyer, M.D. 497.
Meyer, W.L. 881.
Meyersman, E.W. 1065.
Michaux, K. 426.
Michtagard, F. 946.
Miedaner, H. 298, 676, 713.
Migdal, S.D. 414.
Mikolajczyk, K.L. 579.
Milan, F.R. 1273.
Miles, R.S. 358.
Miller, B.W. 75.
Miller, J.G. 941.
Miller, D. 182, 183, 590, 1172.
Miller, D.R. 524.
Miller, J.S. 645, 1022.
Miller, L.F. 337.
Mitchell, A.I. 1151.
Mitchell, A.W. 969.
Mitchell, B.K. 399.
Mitchell, D.S. 1018.
Mitchell, E.R. 591, 956, 986, 1261.
Mistry, V.V. 710.
Miyakawa, T. 1228.
Miyamoto, T. 395, 1195.
Miyata, K. 101, 409.
Miyoshi, M. 848.
Mizuno, T. 482.
Moakley, G.P. 390.
Moalla, M. 977.
Mochizuki, A. 554.
Mochizuki, K. 543, 545, 895.
Modler, H.W. 1116.
Modyanova, L.V. 302.
Moerman, E. 1065.
Moffitt, H.R. 1330.
Molina, J.C. 546.
Mollina, V. 767.
Mollison, K.W. 436.
Molski, M. 851.
Moltz, H. 228, 231.
Money, T. 1046.
Monick, M.M. 464.
Monmaur, P. 221.
Monroe, C. 1157.
Monroe, R.J. 350.
Monserenuson, U. 22.
Monteoliva, M. 918.
Montgomery, A.M. 454.
Montiel Bueno, A. 975, 1329.
Mookherjee, B.D. 294, 711, 1051.
Moore, B.P. 210, 1275.
Moore, G.A. 1375.
Moore, G.J. 1407.
Moore, P.L. 1110.
Moore, S.A. 79.
Moors, P.J. 661.
Moore, D. 1366.
Morandotti, A. 86.
Morcrette, I. 1474.
Morea, M. 391.
Moreno, D.S. 596.
Morenz, J. 70.
Moret, I. 283.
Moretti, A.M. 445.
Moretti, G. 41.
Moretto, E. 1088.
Morgan, J.D. 162.
Morgan, J.L. 45.
Mori, K. 50, 273, 543, 545, 666, 668, 1045, 1174, 1345.
Mori, M. 543, 545.
Mortz, R.F.A. 206.
Mortz, R.F. 1371.
Morrin, J.S. 1218.
Morrin, N. 505.
Morrin, P.J. 443.
Morse, D. 888.
Morse, D.E. 1235.
Morton, R.J. 725.
Mosand, A. 683.
Moss, R.L. 1159.
Mott, O. 1414.
Motto, M.G. 705.
Mottram, D.S. 289.
Moutura, K.J. 34, 1468.
Mouly, A.-M. 12.
Mouradian, L.E. 52.
Mucha, R.F. 253.
Mueller, G.G. 882, 1255.
Mueller, P.K. 93, 115.
Mugner, E. 60.
Mukaidani, H. 672.
Mulay, C.A. 1090.
Mulchandani, N.B. 929.
Mulla, M.S. 965.
Muller, D.G. 1227.
Munford, J.D. 474.
Murnian, M.A. 435.
Munoz, J.J. 845.
Muntaner, O. 834.
Munton, S.L. 1165.
Munratsuk, K. 781.
Mura, T. 672.
Murillo, R.M. 146.
Murphy, C. 1161.
Murphy, S.D. 1018.
Murray, M. 495.
Mutoh, N. 480, 482, 1230.
Myers, L.F. 389.
Myrshon, F. 137.
Myhren, F. 276.
Naccache, P.H. 845, 851.
Nadell, F. 1253.
Nagahama, S. 777.
Nagatsu, I. 59.
Naguib, M. 201.
Naim, R. 83, 437.
Nakagawa, H. 1120.
Nakagawa, Y. 1043.
Nakamura, S. 142.
Nakano, K. 558.
Nakata, T. 399.
Nakatsuka, T. 305, 1074.
Nakayama, I. 1048.
Naoshima, Y. 672.
Nasr, A. 1417.
Naqvi, S.H.M. 161.
Narayana, K.H. 704.
Narayanan, C.S. 1055.
Narazisi, L. 298, 676, 713.
Nash, K.A. 1222.
Nash, S.M. 1376.
Nasr, E.-S.A. 201.
Natarajan, A.M. 1084.
Natarajan, C.P. 1418.
Nation, J.L. 966.
Natioli, E. 236.
Navarro, J.B. 1286.
Nawa, Y. 1213.
Nayak, S.V. 39.
Ndifon, G.T. 1346.
Neal, J.W., Jr. 924, 954.
Nederlof, J. 60.
Neilson, E.G. 862.
Neisewander, J.L. 645.
Neitz, A.W.H. 423.
Neilman, M.C. 108.
Neilson, G.M. 1203.
Neilson, R.D. 439, 1219.
Nemec, P. 164.
Nesbitt, B.F. 146, 544.
Nespor, S.M. 267.
Ness, J. 1372.
Nesterov, E.A. 1240.
Netherton, J.C., III. 1298.
Nettleton, D.O. 487.
Newell, P.C. 1413, 121.
Newth, C.K. 122.
Ney, K.H. 284.
Ng Cheong Ton, J.M. 261.
Ng, S.-S. 1343.
Nguyen Duy-Jacquemin, M. 803.
Nguyen, H. 394.
Nichols, K.H. 707.
Nickerson, G.B. 688.
Nicoletto, P.F. 1031.
Niedel, J.E. 447.
Niedersaech, N. 1320.
Nielsen, H. 847.
Nielsen, V.C. 1425, 1458, 1499.
Nijima, A. 1147.
Ninnemann, J.L. 111.
Ninomiy, Y. 903.
Nishida, Y. 1072, 1118.
Nishimoto, T. 354.
Nishimura, T. 1000.
Nishino, C. 518, 1130, 1132, 1252, 1290.
Nishioka, K. 451.
Nitz, S. 1060.
Niwan, M. 485, 486.
Nixon, C. 1208.
Nobunaga, M. 462.
Noda, T. 556.
Noer, K. 68.
Noguchi, H. 140, 519.
Noleau, I. 1397.
Nomura, T. 83.
Nonnen, A.J. 645.
Norback, P.J. 1108.
Nordenhem, H. 1303, 1307.
Nordlander, G. 1293, 1303, 1306.
Nordlund, D.A. 999, 992.
Noren, E. 1433.
Norgren, R. 1193, 1194.
Norin, T. 671.
Norman, A.W. 53.
Norman, M. 862.
Norman, P. 805.
Norman, T. 474.
Northcott, C. 538.
Nottingham, S.F. 559.
Nottingham, S.M. 1085.
Noshinfar, E. 1141.
Novak, L. 667, 1251.
Novotny, M. 222, 623, 996, 1000.
Ntezurubana, L. 317.
Nucifora, A. 194.
Nultsch, W. 119, 1232.
Numata, A. 139.
Numata, H. 900.
Nunez, A.J. 1054.
Nyron, H. 137.
Nyrburger, J.J. 1177.
Nykaenen, L. 685.
O'Blanness, M.L. 1358.
O'Callaghan, D.P. 941.
O'Connell, R.J. 619, 806, 1128.
O'Dell, S.L. 21.
O'Donnell, B.P. 1314.
O'Mahony, M. 346, 351, 355, 1074.
O'Mahony, M.A.P.D.E. 407.
Obata, K. 50, 1174.
Obenchain, F.D. 553.
Obeso, A. 404.
Obin, M.S. 1246, 1347.
Ochir, G. 1414.
Ockman, H.W. 364.
Oda, D. 106.
Odam, E.M. 1406.
Oderbert, N. 346, 351, 355, 407, 1074.
Odden, W. 1038.
Oehlschlager, A.C. 578, 606, 607.
Oehlschlager, H.A. 427.
Oetting, R.L. 19, 650.
Ogawa, H. 83, 397.
Oghiso, Y. 440.

- Ognyanov, I. 694.
Ogren, S.O. 1015.
Okhusa, M. 1144.
Ohlhoff, G. 681, 682.
Ohmori, T. 1229.
Ohnishi, A. 543, 545, 895.
Ohno, N. 1048.
Ohtsuka, N. 320.
Ohki, H. 392, 1072, 1118.
Ohtsui, H. 44.
Ohtsuki, M. 139.
Ojima, F. 91.
Okada, Y. 395, 1144, 1195.
Okai, H. 305, 691, 1074, 1076.
Okano, T. 1000.
Okereh, S.H. 180.
Olafsdottir, G. 373.
Olivati, J. 529.
Oliver, G. 1462.
Olson, K.H. 234.
Olson, C.V. 472.
Omar, M.M. 1467.
Omari, Y.I. 418.
Omirbekova, N.G. 492.
Ondarza, R.N. 1284.
Onimaru, T. 101, 409.
Onisor, A. 1331.
Ono, S. 101, 409.
Ono, T. 153.
Onoda, N. 7, 58.
Osawa, K. 1230.
Ospanian, I. 1331.
Ordal, G.W. 487, 877.
Orlovskaya, E.E. 549.
Orona, E. 52.
Orr, F.W. 106, 460.
Orsini, J.C. 221.
Orsini, M. 430.
Osborne, D.N. 1407.
Oshima, N. 116.
Ossenkopp, K.-P. 644, 1024.
Ostrom, K.M. 34.
Otake, A. 594.
Otsuno, D.A. 553.
Ou, P. 323.
Ouanes, C. 154.
Owaga, M.L.A. 192, 967.
Owhashi, M. 88, 457, 483, 848, 1213.
Ozkan, A.N. 111.

Pace, U. 429.
Padda, G.S. 348, 356, 361, 1487.
Page, J.M.J. 1406.
Pager, J. 6, 386.
Pagington, F.E. 1496.
Pais, M.F. 603, 1279.
Pal, D. 1090, 1105.
Palaniswamy, P. 145, 518, 1340.
Pallot, D.J. 1156.
Palmbald, J. 112.
Pansiano, M. 1225.
Panssenko, M. 482.
Pandyey, S.C. 995, 1360, 1361, 1364.
Pandyey, S.D. 995, 1360, 1361, 1364.
Pangborn, M. 1483.
Pangborn, R.-M. 1482.
Pangborn, R.M. 299.
Pankiewicz-Nowicka, D. 933.
Papadopoulos, A. 971.
Papi, F. 1389, 1392.
Park, S.C. 910.
Parker, L.A. 640.
Parodi, S. 481, 864.
Parisi, W. 1276.
Parrott, W.L. 566.
Parsons, P.A. 610.
Parsons, P.E. 67.
Parthasarathi, K. 704.
Passell, R.A. 1390.
Passe, D.H. 5.
Passern, D. 716.
Paster, B.R. 870.
Patel, J. 747.
Pateron, V.J. 281.
Pathak, P.D. 1081.
Patterson, R.L.S. 1095.
Patt, S.M. 450.
Payne, E.S. 846.
Payne, T.L. 379, 1314.
Pearson, A.M. 340.
Pechine, J.-M. 516.
Pecori, M. 727.
Pedersen, P.E. 819, 1192.
Pelgrims, J. 354.
Pelosi, P. 49.
Peltola, I. 1430.
Pemberton, J.L. 52.
Penster, D.M. 284.
Penfield, M.P. 347.
Penney, N. 1491.
Pensky, J. 102.
Penttilae, P.-L. 723.
Pepper, T. 1419.

Percy-Cunningham, J.E. 1172.
Perez, H.D. 453, 458, 837.
Perjanin, A. 854, 857.
Perkin, A.G. 1087.
Persaud, K.C. 49.
Pert, C.B. 450, 461.
Pesce de Ruiz Holgado, A. 1462.
Peschke, K. 1170.
Peters, K.-H. 1111.
Peterson, C.S. 259, 1023.
Peterson, D.F. 21.
Peterson, M. 34.
Peterson, M.G. 37.
Pettenuello, M. 195.
Pevsner, J. 47.
Pflanzhauser, W. 291.
Pfleifer, D.G. 983.
Pflugrath, J.W. 868.
Pham Huy, D. 857.
Pham-Deleuge, M.H. 942.
Phelan, P.L. 143, 538, 897.
Phillipson, J. 1470.
Phillips, J.K. 565.
Phillips, S.M. 862.
Phillips, T.W. 1301.
Piccinini, S. 1444, 1445.
Pickett, J.A. 156, 199, 505, 943.
Pieper, D. 1173.
Pierce, A.M. 578, 606.
Pierce, H.D. Jr. 578, 606, 609, 1300.
Pietra, P. 1131.
Pigatto, P.D. 86.
Pike, K.S. 504.
Pike, M.C. 859.
Pillard, D.A. 171.
Pinas, J.E. 489.
Pissonnier, D. 229.
Pittaris, I.S. 1250.
Pluchais, M.D. 863.
Pilmer, J.R. 924.
Podosinnikov, I.S. 416.
Pohajak, B. 480.
Poindron, P. 229.
Poli, G. 113.
Pollack, M.D. 352.
Pond, W.G. 1473.
Pond, B.M. 1338.
Ponzer, B.F. 93, 115, 481.
Popiel, I. 1351.
Poppe, L. 667.
Porter, N.G. 702.
Post, D.C. 205.
Post, L.S. 724.
Poste, L.M. 368, 1096, 1116.
Potapov, A.A. 765.
Potter, J.W. 474.
Potter, K. 1215.
Potter, K.A. 455.
Potter, N.N. 366.
Pouzat, J. 752, 1306.
Powell, R.H. 701.
Powers, M.E. 740.
Prabhakar, K. 36.
Prakash, I. 1012.
Prakash, G.D. 208, 612, 866.
Price, E.O. 1365.
Price, K.R. 338.
Priesner, E. 595, 917, 1327.
Prokopy, R.J. 1131.
Proshold, F.I. 1282.
Prota, R. 1328.
Pruett, T.L. 1219.
Ryzybia, A.E. 720, 1083.
Pucci, C. 1253.
Pugh, R. 384.
Puntieri, I. 285.
Punter, P.H. 253.
Purcell, A.E. 1493.
Puri, H.S. 1417.
Pyrzy, J. 1479.
Pyskalo, H. 1063.

Quaglia, F. 970.
Quensel, V.C. 716.
Quinn, M. 813.
Quinn, T.P. 635.
Quiocho, F.A. 868.
Qureshi, Z.A. 589.

Rabin, M.D. 794.
Radford, T. 1078.
Raffie, E.J. 75.
Ragimova, N.G. 770.
Rahalkar, G.W. 1318.
Raina, A.K. 158, 539, 901, 1267.
Raines, E.W. 495.
Raitt, L. 72.
Raj, P.A. 434.
Rakowski, G. 926.
Ramakrishnan, V. 929.
Ramos, J.M. 972.

Ramos, P. 969, 972.
Randall, C.J. 368.
Randall, J.I. 1009.
Randelbrock, R.E. 1408.
Ranier, E.C. 52.
Rao, V.K. 1487.
Rao, V.S. 345.
Rapp, A. 282, 295.
Rathnawathie, M. 1062.
Raupe, M.J. 1273.
Rauf, M.R. 450.
Rauscher, S. 498.
Rayat, C.S. 84.
Raymer, J. 996.
Raymond, W. 860.
Rea, M.A. 1177.
Reavill, C. 1148.
Rechnitzer, C. 843.
Reed, D.W. 601, 602, 665.
Reed, T.L. 1376.
Reefstie, T. 660.
Rehn, B. 1179, 1381.
Rehnberg, B.G. 659.
Reidinger, R.F. Jr. 262.
Reidinger, R.R. 634.
Reineccius, G.A. 745.
Reiser, A. 1191.
Reinhart, V.C. 1409.
Remahl, S. 1176.
Rembold, H. 166.
Renou, M. 147.
Repa, J.J. 394.
Rezkatali, S. 341.
Resurreccion, A.V.A. 365.
Rezbanaly-Reser, L. 916.
Ribeiro-Do-Valle, L.E. 1386, 1394, 1395.
Rice, M.J. 507.
Richard, H. 318.
Richard, M.M. 1373.
Richmond, R.R. 179, 1246.
Richter, H. 481.
Richter, R.L. 1110.
Ridford, L.M. 753, 887.
Riddle, D.J. 534, 988.
Ridlon, R.W. Jr. 824.
Riddis-Smith, J.T. 965.
Riehl, R.M. 497.
Riere, G. 1172.
Riestler, M. 343.
Rifkin, B. 791.
Rigaud, J. 1402.
Riggenbach, W. 584.
Rigual, R. 784.
Riley, D.J. 832.
Rindabba, N.K. 1011.
Rittschot, D. 560.
Riva, F. 86.
Rizzi, G.P. 1413.
Robacker, D.C. 536, 751, 905.
Roberts, T. 7.
Roberts, A.M. 1410.
Roch-Arvillier, M. 834, 857.
Rochels, R. 105.
Rodgers, R.J. 1009.
Rodopulo, A.K. 303, 1058.
Rodriguez, C.L. 1288.
Rodriguez, P.A. 712.
Roethlis, R. 1309.
Roelofs, W.L. 155, 881, 893, 911, 281.
Roessingh, P. 804.
Rogoli, I. 406.
Rostadjaermet, M. 726.
Rola-Pleszczynski, M. 31.
Rollins, T.E. 444.
Rolls, E.T. 398, 1146.
Roman, C. 1331.
Romano, J.A. 1014.
Roney, P.L. Jr. 266.
Ronqvist, P. 274.
Rorh, M. 847.
Rose, J.D. 997, 1355.
Rose, R.D. 618.
Rosellini, R.A. 1378.
Rosenbach, T. 69, 470.
Rosenbaum, J.T. 860.
Rosenfeld, H.J. 1481.
Ross, F. 673.
Ross, J.S. 1220.
Ross, M.K. 902.
Ross, M.H. 555, 1304.
Ross, R. 495.
Rosser, A.E. 211, 818.
Rossi, E. 970.
Rossi, V. 113.
Rossiter, M. 1344.
Rot, A. 840.
Rott, O. 506, 914.
Rothschild, M. 1272.
Rottiers, D.V. 1034.
Rotundo, A. 167.
Rotundo, G. 167, 904, 1315.
Rouet-Mayer, M.-A. 1470.
Roumy, M. 402.

Rowan, D.D. 945.
Rowbottom, R.S. 321.
Rowlands, M.L.J. 741.
Rowley, A.F. 1223.
Rubin, L. 1188.
Rubin, R.P. 71.
Rudinsky, J.A. 379.
Rudy, J.W. 255, 256.
Ruesink, W.G. 204.
Ruffi, M. 461.
Ruff, M.R. 450.
Russell, C.B. 127.
Russell, E.M. 242, 243.
Russell, G.B. 569.
Russo, A.F. 135.
Russworm, H.J. Jr. 1481.
Ryker, L.C. 378, 523.
Ryon, J. 1013.
Ryu, J.-I. 485.

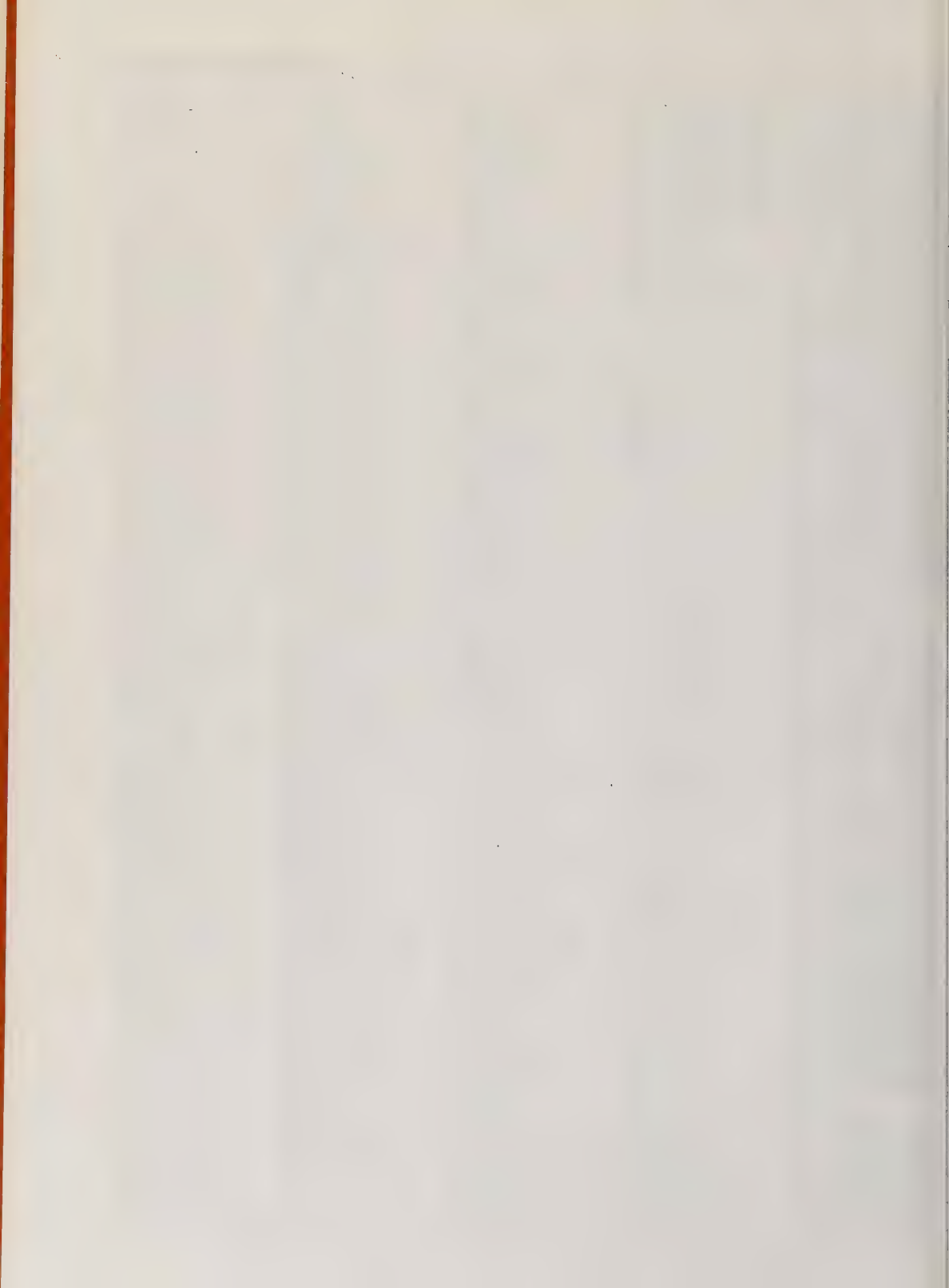
Saamundsen, J.A. 363.
Sacharow, G.N. 1238.
Sack, J.S. 868.
Saevend, R. 1062.
Sahu, S.C. 1358.
Saini, R.K. 755, 967.
Sakurai, A. 1191.
Sainz, T. 412.
Sakaguchi, T. 1477.
Sakai, T. 1043, 1045.
Sakaki, T. 679.
Sakakibara, H. 889.
Sakakibara, S. 832.
Sakamoto, M. 1247.
Sakata, K. 467, 1274.
Sakho, M. 296.
Sakuma, H. 679.
Sakuma, M. 552.
Sakurai, H. 1247.
Sakaguchi-Auguste, M.H. 308.
Salama, H.S. 598.
Salem, S. 598.
Salguero, J.G. 1443.
Salmona, M. 410.
Salmon, D.S. 996.
Salvador, J. 1096.
Samama, B. 213.
Samsyngina, G.A. 419.
Samy, M.M. 1173.
Sancoda, N.G. 1403.
Sanchez-Moreno, M. 918.
Sancho, J. 412.
Sande, K. 35.
Sanders, C.J. 1334, 1341.
Sanders, D.L. 1375.
Sandnabba, N.K. 1011.
Sandoval, J. 1198.
Sanger, D.J. 643.
Sangu, R.P.S. 1081.
Sansone, L.A. 445.
Sant'anna, E.S. 1088.
Sant'anni, A. 979.
Santi, L. 481, 864.
Santosh, K. 721, 1461.
Saper, R.A. 868.
Sarris, J. 678.
Sasaki, M. 1144.
Sato, M. 18.
Sato, R. 502.
Sato, T. 395, 1039, 1049, 1144, 1150, 1195.
Satpute, U.S. 1277.
Satyanarayana, S.V.V. 187.
Sauder, D. 815, 816.
Sauder, D.N. 464.
Saura-Calixto, F. 315.
Sauvageot, F. 1482.
Savaure, Y. 1400.
Savoy de Giori, G. 1462.
Saxena, R.C. 180.
Scarponi, G. 283.
Schaefer, H.J. 16.
Schaefer, J. 153.
Schaeffer, C. 243.
Schal, C. 541, 921, 1281.
Schamp, J. 1405.
Schanbacher, B.D. 1473.
Schaner, A.M. 564, 568.
Scheepens, M.H.M. 1171.
Scheffer, J.J.C. 317.
Scheffold, R. 1044.
Scheuer, P. 278.
Schneider, I. 1320.
Scher, M.F. 869.
Scheuer, D. 990.
Schieber, M.J. 37.
Schiff, S.S. 799.
Schiffmann, E. 461.
Schid, D. 763.
Schiller, E.L. 1264, 1265, 1266, 1500.
Schirz, S. 1438.
Schlein, Y. 500, 551.
Schlitzer, J.L. 427.

Schlyter, F. 1292.
Schmid, A. 909.
Schmidhofer, T. 1086.
Schmidt, D. 70.
Schmidt, M. 408.
Schmidt, U. 18, 246.
Schmitt, M. 107.
Schmuff, N.R. 565.
Schmutzenhofer, H. 961, 962.
Schneider, D. 509.
Schneiderman, A.M. 801.
Schorman, E. 134.
Schoeters, M.M. 1065.
Schoonhoven, L.M. 382.
Schott, A. 852.
Schotten, T. 1227.
Schreck, C.B. 859, 760.
Schreier, P. 297.
Schreiner, A. 844.
Schreivens, E.L. 1065.
Schroeder, J.-M. 465.
Schroeder, M.J. 339.
Schultz, L.A. 1374.
Schultz, W.B. 342.
Schultzberg, M. 51.
Schulze, K. 1091.
Schumacher, J.N. 309.
Schumacher, K. 987.
Schwarz, M. 924.
Schwarz, F. 584.
Schwarz, C.J. 466.
Schwarz, R.A. 827.
Schwarz, M. 539, 894, 901, 954.
Schwenk, K. 400, 1185.
Schwenke, W. 1319.
Schwob, J.E. 65.
Sciapani, A. 1030.
Sciari, G. 173.
Sciari, J. 52, 387.
Scott, K.J. 339.
Scott, S.J. 472.
Scott, T.R. 398, 1146.
Scully, C. 110.
Seabrook, W.D. 145, 1338.
Seah, F.H. 324.
Seard, N.J. 705.
Secrist, J.L. 359.
Sedlacek, F. 55.
Segerstad, H.C.A. 17.
Segovia, S. 1175.
Sehgal, S. 84.
Sekita, N. 582.
Selviah, C.M. 1440.
Selzer, R. 380.
Sen, L. 463.
Sen, T. 1415.
Sengar, R.M.S. 1081.
Senior, R.M. 496.
Senter, S.D. 287.
Seppae, H. 125.
Serranin, L.N. 549.
Serrano, R. 1415.
Shadrin, R. 1418.
Sestakova, H. 89.
Settle, R.G. 27, 792.
Seymour, B.W.P. 860.
Shaafi, R.I. 845, 851.
Shah, F.H. 324.
Shah, N.C. 1415.
Shallenberger, R.S. 308.
Shand, P.J. 357.
Shani, A. 953.
Shannon, V.A. 852.
Sharma, B.D. 361, 1487.
Sharma, K.D. 1081.
Sharma, N. 348, 361, 1487.
Sharma, P. 1164.
Sharp, J.L. 170.
Shatz, K. 1015.
Shaw, G.J. 686.
Shaw, M. 1440.
Sheehan, K.B. 1246.
Sheidler, V.R. 787.
Sheldon, B.W. 739.
Shepherd, G.M. 819.
Sherman, E. 650.
Sherman, M.Y. 492.
Shewfelt, R.L. 365.
Shibayama, S. 672.
Shibukawa, O.K. 302.
Shibuya, T. 1134.
Shibuya, T. 808, 1137.
Shields, J.M. 85.
Shigematsu, A. 680.
Shim, B.-S. 831.
Shim, C. 420.
Shimada, I. 44, 392.
Shingu, M. 462.
Shinoda, I. 1076.
Shinoda, I. 691.
Shiota, Y. 830.
Shipley, M.T. 1182.
Shirasaki, S. 520.
Shiratsani, T. 1196.

Author Index

- Shirazian, D. 1264, 1265, 1266.
Shirelins, L. 1240.
Shoji, M. 1074.
Shorb, M.D. 168.
Shore, T.L. 585.
Shry, Y.L. 1275.
Shu, C.-K. 294.
Shu, C.-K. 711.
Shu, C.-K. 1051.
Shubeck, P.P. 159.
Shure, D.J. 266.
Shwartz, V.I. 708.
Shwartz, E.M. 493.
Sicard, G. 1135.
Siddiqui, M.S. 1417.
Siegbahn, A. 853.
Siegfried, B.D. 966.
Sienkiewicz, Z.J. 398, 1146.
Sigmund, L. 55.
Sigmund, R.A. 1367.
Sikorowski, P.P. 883, 1248.
Silk, P.J. 538, 890.
Silvain, J.F. 957.
Silver, W.L. 761, 769.
Silverstein, R.M. 510, 910.
Sim, J. 9.
Simard, R.E. 1102, 1490.
Simchowitz, L. 435.
Simmonds, M.S.J. 382, 561.
Simmons, R.L. 439, 1219.
Simon, M.A. 1329.
Simon, C.A. 390.
Simon, M.I. 480, 1230.
Simon, N. 72.
Simon, P.W. 332.
Simonsson, B. 853.
Simpkins, J.R. 199.
Singh, R.N. 39.
Singh, S. 721, 1461.
Singleton, C.A. 869.
Sisley, A.C. 792.
Siverson, R.M. 941.
Sivinski, J.M. 980.
Sjoedin, K. 1293, 1303.
Skarnes, E. 456.
Skatrud, M. 179.
Skatteboel, L. 274, 275, 276.
Skeel, A. 68.
Sklar, L. 458.
Skorobogatova, O.V. 419.
Skovronek, H.S. 1122.
Skulhavy, V. 522.
Slessor, K.N. 524, 1300.
Sloan, A.E. 740.
Slotnick, B.M. 4, 626.
Smales, S. 657.
Smeraski, C.A. 769.
Smith, A.B. 1107.
Smith, A.P. 800.
Smith, B.H. 511.
Smith, C.D. 863.
Smith, C.R. 579.
Smith, C.W. 448.
Smith, D.V. 1143.
Smith, J.D. 1003.
Smith, J.J. 359.
Smith, J.M. 126.
Smith, J.W. 567.
Smith, M.C. 199.
Smith, M.P.W. 1423.
Smith, P.A. 1006.
Smith, R.H. 83.
Smith, R.J. 640.
Smith, R.J.F. 1002, 1003, 1036.
Smith, S.A. 1390.
Smith, S.L. 633.
Smith, T.W. 701.
Smith-Hisler, C.L. 1260.
Smogorzewska, E.M. 103.
Snir, R. 1368.
Snow, J.W. 200, 880.
Snyder, G.E. 319.
Snyder, S.H. 47.
Snyderman, R. 98, 859, 863, 1204, 1205.
Socinski-Wiggins, S. 222.
Soderstrom, E.L. 137.
Solano-Flores, L.P. 13.
Solberg, M. 724.
Solomon, L.D. 439.
Solomon, J.S. 439, 477.
Solomon, F. 33.
Solomon, J.D. 907.
Solov'eva, N.A. 778.
Sonenshine, D.E. 510.
Sonnet, P. 502.
Sonnet, P.E. 664, 1269, 1342.
Sorbi, R.T. 49.
Sorensen, L. 1366.
Sorvari, T.E. 1163.
Southwick, E.E. 206.
Sower, L.L. 188.
Spagnuolo, P.J. 102.
Spaziani, E. 611.
Spear, N.E. 257, 260, 271, 646.
Specchio, J. 724.
Spencer, F.P. 233.
Spilberg, I. 435.
Spinelli, P. 148.
Spiyak, K. 1014.
Spittstoesser, D.F. 728.
Sprague, E.A. 466.
Sprecher, E. 674.
Springer, M.S. 444.
Sprugel, K.H. 495.
Sreng, L.A. 871.
Sreng, L. 869.
Srinivasan, A. 805.
Srinivasan, R.A. 367.
Stabell, O.B. 660.
Staddon, B.W. 614, 1344.
Stadlerbacher, E.A. 158.
Stan, G. 1331.
Stanek, O. 1073.
Stanley, B.H. 204.
Statham, J.A. 325.
Staub, J.E. 332.
Stavry, M. 226.
Steck, W.F. 518.
Stedman, H.M. 401.
Steel, E. 14, 631, 1357.
Steele, R.W. 1210.
Steiger, B. 1044.
Stein, A.N. 483.
Stein, B.E. 225.
Stein, M.A.C.F. 1099.
Steiner, T.A. 1410.
Steinke, J.A. 373.
Stendahl, O. 80.
Stenstrom, Y. 275.
Stephenson, R.A. 732.
Sterling, J.C. 76.
Sternberg, A. 553.
Stevens, D. 628, 629.
Stevens, D.A. 793.
Stevens, J.C. 798, 1187.
Stevens, P. 97.
Stevenson, M.M. 456.
Stewart, C.N. 262.
Stewart, W.B. 819.
Stickie, D.F. 74.
Stillier, T.M. 203.
Stock, J. 128.
Stoddard, D.M. 1006.
Stoddard, M. 1190.
Stoffer, S.C.C. 734.
Stoffolano, J.G., Jr. 1131.
Storck, P.G. 677.
Storleman, I.P. 1148.
Stone, M. 607.
Storhaug, R. 1450.
Straight, R.C. 1407.
Strandford, F.V. 636.
Stransky, K. 1414.
Strapazzon, A. 913, 1131.
Strauss, C.R. 295, 1064.
Streisky, V.V. 1238.
Strittmatter, S.M. 47.
Strunz, G.M. 1041.
Stuber, D.A. 1101.
Suarez Saro, J.M. 1168.
Subchev, M.A. 985.
Sublette, M. 1365.
Sudo, R. 708.
Sunnam, C.A. 466.
Sugarmann, D. 575.
Sugawara, S. 679.
Sugie, G.C.H. 533.
Sugie, H. 140, 141, 502, 520, 521.
Sugimoto, K. 395.
Sugimura, N. 708.
Suhiko, M. 723.
Sullivan, J.J. 111.
Sullivan, S.J. 855.
Sullivan, T.P. 1026, 1380.
Suntaraputra, M.H. 141.
Sumner, J.L. 1093.
Sumner, M.P. 1352.
Surtles, L. 757.
Susanna, M. 196.
Susswein, A.J. 150.
Sutherland, O.R.W. 569.
Suzuki, J. 292.
Suzuki, M. 781.
Sverdlov, A.B. 317.
Svetogorov, D.Ye. 491.
Svoboda, I.F. 1423.
Swier, S.R. 599.
Switzer, R.M. 330.
Syarif, H. 350.
Syed, B. 547.
Szantay, C. 667, 1251.
Szczelowski, W.A. 548.
Szentesi, A. 1311.
Sziraki, G. 944, 968.
Szocs, G. 968, 1325.
Szocs, G. 984, 923.
Taber, A.B. 252.
Tachikawa, T. 1228.
Tajima, K. 1049.
Takabayashi, J. 556, 931.
Takagi, S.F. 57, 1187.
Takahashi, J. 1043.
Takahashi, K. 1061.
Takahashi, N. 1247.
Takahashi, S. 556, 931.
Takaishi, K. 139.
Takeda, F. 116.
Takeso, T. 286.
Taley, Y.M. 1277.
Talgy, M. 460.
Tamaki, Y. 140, 502, 519, 520, 521, 533.
Tamas, A.-K. 1251.
Tanhankar, A.J. 1318.
Tamura, M. 305, 1074.
Tamura, T. 478.
Tan, S.H. 538.
Tan, S.Y. 1484.
Tanaka, H. 1247.
Tandler, B. 1199.
Tarabietti, G. 410.
Tarkowski, J.A. 734.
Taschenberg, E.F. 499.
Tashiro, K. 467.
Tatsuki, S. 141.
Tautz, J. 1126.
Tavassoli, M. 99.
Taylor, B.L. 126, 485, 486, 1233.
Taylor, D. 510.
Taylor, R.D. 1377.
Teal, P.E.A. 525, 526, 537, 889, 986, 1261, 1493.
Teeter, J.H. 813.
Teich, I. 953.
Teicher, E. 1088.
Temussi, P.A. 307.
Teng, H.S. 1484.
Tengoe, J. 1260, 1302.
Teo, K.G. 1484.
Tessodou, G. 90.
Tewari, T. 486.
Terentyev, P.B. 302.
Terheggen, P. 82.
Terkel, J. 226.
Ternowitz, S. 835.
Ternowitz, T. 850.
Ternova, V. 461.
Tetta, M. 34.
Teuscher, E. 839.
Tews, J.K. 394.
Thacker, F.E. 1423, 1456.
Theibert, A. 1225.
Thies, J. 1373.
Thielsen, B. 1186.
Theodore, A.C. 471.
Thibault, E. 934.
Thibout, E. 1234.
Thiele, V. 1427.
Thiere, D. 1129.
Thiery, J.C. 229.
Thiessen, D.M. 1033.
Thimmonier, J. 1354.
Thindwa, H.Z. 583.
Thomas, A.W. 1041.
Thomas, G. 513.
Thomas, J.D. 1346.
Thomas, J.M. 948.
Thomas, L. 626.
Thompson, A.C. 566, 670.
Thompson, C.S. 825.
Thompson, D.L. 97, 999.
Thompson, M.J. 566.
Thompson, N. 1454.
Thomson, A.W. 1222.
Thomson, D.M.P. 415, 833.
Thorne, B.L. 612.
Thornton, A.E. 1374, 1383.
Tiemey, A.J. 825.
Tignor, K.R. 555, 1304.
Tilche, A. 1444, 1445.
Tilden, P.E. 570.
Tilles, D.A. 1293, 1307.
Tirindelli, R. 49.
Tiu, C.S. 293.
Tkeuchi, A. 30.
Tober, H. 166.
Tobin, T.R. 1243.
Tolmer, B.A. 376.
Tooray, D. 1098.
Toft, D.O. 497.
Tohyama, M. 82.
Tolson, G.M. 635.
Toma, R.B. 795.
Tonosaki, K. 1133, 1137, 1138, 1153.
Toogood, S.J. 1452.
Tori, M. 581.
Toth, J. 925.
Toth, M. 894, 909, 923, 968, 1325, 1376.
Toulemonde, B. 1397.
Toultain, P.L. 452.
Townsend, M.G. 1406.
Toyoshima, K. 1199.
Tranelli, J.F. 517.
Tranelli, J.F.A. 178.
Travers, S.P. 1143.
Tremblay, E. 904.
Tribhawan, R.C. 1233.
Triffetti, R.R. 47.
Trka, A. 1414.
Troccoli, G. 829.
Troeger, E.J. 597.
Trotter, D. 768.
Tsiropoulos, G.J. 1294.
Tsuchiya, E. 1228.
Tsuge, M. 1274.
Tsurufuji, S. 91, 1120.
Tsuchida, K. 1048.
Tucciaroni, P.L. 680.
Tucker, D. 1138.
Tumlinson, J.H. 537, 889, 986, 1261, 1269, 1492, 1493.
Tunaley, A. 735.
Tyre, J.E. 165.
Uchmann, W. 1479.
Uden, A.-M. 112.
Ueda, T. 131.
Ukoli, F.M.A. 1346.
Underhill, E.W. 518, 1337, 1340.
Uniyal, G.C. 1415.
Uppal, S.K. 310.
Usborne, W.R. 1103.
Usui, K. 141, 1130.
Usui, M. 848.
Utsumi, K. 1000.
Uva, B. 774.
Uygun, N. 993.
Vaidenhoffer, Z. 1241.
Vakil, U.K. 345.
Vale, A. 172, 195.
Valencia, A. 1178.
Valentini, A. 486.
Valenti, A. 1139.
Valenticic, T. 378.
Valliere, W.A. 259, 1023.
Van de Veire, M. 1291.
Van den Driessche, P. 955.
Van der Geer, P.L.J. 490.
Van der Kooij, D. 642.
Van der Meer, J. 354.
Van der Pers, J.N.C. 885.
Van der Starre, H. 43.
Van der Wel, H. 17.
Van der Wolk, F.M. 43.
Van Driel, R. 490, 874.
Van Dyke, C.J. 436.
Van Dyke, K. 436.
Van Epps, D.E. 413, 474, 1209.
Van Geelen, M.A. 1437.
Van Groen, T. 1188.
Van Haastert, P.J.M. 874.
Van Hoesen, D.M. 254.
Van Langenhove, H. 1405.
Van Leerdam, M.B. 567.
Van Loveren, H. 82.
Van Ouwertker, E.N.J. 1429.
Van Raden, H. 663.
Van Steenwyk, R. 978.
Van Tormout, P. 354.
Vance, R.A. 263.
Vandenbergh, J.G. 219.
Vander Meer, R.K. 1246.
Varner, M.A. 1001.
Vasilevska, N.E. 776.
Vasudevan, R. 270.
Verbeu, H.W. 991.
Venanzi, T.J. 684.
Venpe, G. 853.
Venkatachalam, S. 709.
Ventura, M.T. 90, 829.
Verba, G.G. 1396.
Vercollino, J.C. 744.
Verde, J.H. 114.
Verheese, M.W. 863.
Verhofstad, A.A.J. 51.
Verma, G.S. 929.
Verrill, P.A. 998.
Vetter, J.C.M. 134.
Viggiani, G. 976.
Vieux, M. 12.
Vitala, J. 235.
Villani, M. 163.
Villages, G. 546.
Vincent, J.-C. 1474.
Vinhogard, J. 137.
Vinson, S.B. 149, 424.
Visser, F.R. 686.
Visser, H.J. 1129.
Vita, G. 193, 195, 914, 1253.
Vite, J.P. 982, 1279, 1345.
Vitt, L.J. 1010, 1035.
Vlasova, O.K. 1058.
Voerman, S. 512, 1327.
Voermans, J.A.M. 1429, 1446.
Vogt, M.B. 255, 256.
Vogl, R.G. 753, 887.
Voile, A. 1412.
Voltrath, M. 430.
Volz, H.A. 1279.
Voorburg, J.H. 1449, 1499.
Vorobyeva, N.V. 492.
Vorobyova, L.I. 302.
Vorst, H.G. 322.
Vostrowsky, O. 597, 922.
Vrkoč, J. 1240, 1241.
Vyas, M.N. 868.
Vyas, N.K. 868.
Wade, B.H. 438.
Wahl, L.M. 450.
Wahl, S.M. 450.
Wahle, P. 820, 821.
Wake, M.H. 1185.
Wakisaka, S. 393.
Waldade, S.M. 2, 542.
Walker, G. 1024.
Walgenbach, C.A. 565, 938.
Walker, D.W. 1155.
Walker, G. 989.
Walker, J.C. 5.
Walkowicz, M. 669.
Wall, C. 505.
Wallraff, H.G. 1387, 1389, 1392, 1393.
Walsh, A.E. 488.
Walsh, D.K. 1314.
Walsh, E.M. 78.
Walter, R.J. 432.
Waltrip, G.D. 319.
Wang, V.B. 510.
Warburg, A. 551.
Ward, P.A. 77, 437.
Ware, C.W. 1345.
Warheit, D.B. 98, 1207.
Warner, J.E. 1211, 1212.
Warner, K. 1488.
Wassgren, A. 1307.
Watanabe, H. 543, 545.
Watanabe, K. 431, 1120.
Watanabe, M. 1039.
Watson, P.J. 1236.
Watts, M.J. 1495.
Wauters, H.W. 134.
Wawrzenczyk, C. 669.
Wayne, A.W. 1407.
Wazlawek, B.E. 233.
Wcislo, W.T. 540.
Weatherston, I. 182, 183, 590, 1177.
Weber, K. 430.
Weber, R.J. 450.
Webster, R.O. 496.
Webster, R.P. 136, 1261.
Wee, E.H. 1484.
Weeks, B.A. 1211, 1212.
Weidlich, V. 839.
Weiffenbach, J.H. 1162.
Weiler, E. 10, 1381.
Weissenberg, M. 930.
Weitzman, S.A. 1220.
Wellington, J. 232, 634.
Wells, H. 168.
Wells, M.J. 873.
Wells, P.H. 188.
Weslien, J. 608.
West, J.R. 910, 941.
West, R.J. 526.
Westbrook, F.R. 649.
Westerbergh, H. 658.
Weston, W.L. 476.
Westrum, L.E. 14.
Wetherax, P.B. 951.
Wheeler, C.E.J. 96.
Wheeler, E.D. 613.
Whitcomb, W.H. 959.
White, B.C. 639.
White, J.H. 114.
White, N.D.G. 609.
White, P.J. 633, 1008.
Whitehead, A.T. 1258.
Whitehead, M.C. 64, 66.
Whitman, D.W. 1379.
Whittaker, M. 1047.
Whitney, P.H. 1269.
Wienusz-Wysoka, B. 433.
Wiesler, D. 623, 996, 1004.
Wigal, T. 257.
Wignore, A.S. 1079.
Wijnhoven, J. 1065.
Wikner, E. 473.
Wilcox, P.M. 787.
Wilcox, P.H. 1269.
Wilkins, J.P.G. 1406.
Wilkinson, P.C. 110, 479, 849.
Wilkinson, R.C. 966.
Willemot, C. 1096.
Williams, A.K. 353.
Williams, A.G. 1440.

- Williams, B. 805.
 Williams, E.M. 569.
 Williams, G.R. 792.
 Williams, H.J. 424.
 Williams, M.H., Jr. 420.
 Williams, M.L. 1454.
 Williams, P.J. 295, 1064.
 Williams, R.C., Jr. 413.
 Williams, R.N. 184, 1283.
 Williams, W.F. 1001.
 Williamson, E.D. 1096.
 Willis, M.A. 143.
 Wilson, B. 295, 1064.
 Wilson, D.A. 1181.
 Wilson, E.O. 621.
 Wilson, L.T. 1321.
 Witschko, R. 1385.
 Witschko, W. 1385.
 Winston, M.L. 524.
 Witte, P.U. 24.
 Wittig de Penna, E. 744.
 Witzgall, P. 573, 595.
 Wygul, G. 883, 1248.
 Woffrom, J.A.K. 860.
 Wolfon, R.J. 241.
 Wong, A. 322.
 Wong, H.A. 326.
 Wong, J. 609.
 Wong, J.W. 1340.
 Wong, R.L.C. 411.
 Wong, S.-Y. 346, 351, 355.
 Wong, S.Y. 1476.
 Wong, V.Y.H. 411.
 Wood, D.F. 1096.
 Wood, D.L. 570.
 Wood, D.S. 1103.
 Wormser, G.P. 747.
 Wouterlood, F.G. 60.
 Wright, D.W. 703.
 Wright, G.G. 438.
 Wu, C.-M. 333, 1052.
 Wu, J.-Y. 59.
 Wysocki, C.J. 219, 232, 626, 634.
 Wysocki, H. 433.
 Wysoki, M. 1171.
 Wytenhove, M. 288.
 Yadav, J.S. 367.
 Yagi, O. 708.
 Yajima, I. 689.
 Yamada, M. 1460.
 Yamada, N. 1460.
 Yamaguchi, H. 139.
 Yamamoto, I. 238.
 Yamamoto, K. 393.
 Yamamoto, T. 26, 1028.
 Yamamoto, Y. 781.
 Yamasaki, H. 62.
 Yamashita, S. 377, 1196, 1197.
 Yamauchi, K. 340.
 Yamazaki, K. 626.
 Yamazaki, M. 1477.
 Yaminias, C. 974.
 Yanagishima, N. 1247.
 Yanai, T. 689.
 Yandell, K.L. 523.
 Yang, S.-J. 831.
 Yano, E. 30.
 Yao, A.-L. 1299.
 Yassin, R. 845.
 Yaxley, S. 398, 1146.
 Yegorov, N.S. 1238.
 Yeh, W.-I. 587, 588.
 Yen, J.T. 1473.
 Yonekawa, H. 872.
 Yong, F.M. 326.
 Yoon, H.S. 304.
 Yoshida, M. 26, 1482.
 Yoshimura, T. 866.
 Yoshinaga, M. 409.
 Yoshioka, M. 30.
 Young, C.T. 350.
 Young, H. 281, 1262.
 Youngman, R.R. 604.
 Yuen, C. 837.
 Yuhara, M. 1000.
 Yukawa, J. 157.
 Yule, A.B. 969.
 Yuval, B. 551.
 Zaborszky, L. 428.
 Zafar, S.I. 324.
 Zaharan, N.N. 1059.
 Zahoor, K. 547, 927.
 Zahm, D.S. 54.
 Zakharova, I.N. 416.
 Zaki, F.N. 531.
 Zalom, F.G. 1321.
 Zaval'skii, L.Yu. 491.
 Zawistowski, S. 879, 1246.
 Zeiske, E. 1196.
 Zelazowska, H. 873.
 Zhao, C.H. 941.
 Zhavora, L.T. 776.
 Zhuzhikov, D.P. 181.
 Zifi, M. 796.
 Zigmord, S.H. 855.
 Zikowski, B.W. 579.
 Zimmer-Faust, R.K. 165.
 Zimmermann, A. 94, 100.
 Zippel, H.P. 763.
 Zitrak, A. 1115.
 Zuckerman, B.M. 494.



Subject Index

- Acalymma vittatum**,
attractants, chemical composition, volatiles, *Cucurbita maxima* 940.
- Acanthoscelides obtectus**,
inhibition larvae, oviposition, biological control, Leguminosae 1311.
- Accessory gland**,
chemosignals, role aggressive behavior, characterization, males, mice 1371.
- Accessory olfactory bulb**,
electrophysiology, rabbits 1188.
- Acetulfame K**,
fructose mixtures saccharin, aspartame comparison, sweetness, taste panel evaluation 354.
- Acetaldehyde**,
interaction morphine, effects on taste aversion learning, conditioned response, rats 261.
- Acetone**,
attractancy, bait, *Glossina* 196.
attractants, olfactory stimuli, *Glossina morsitans morsitans*, *Glossina pallidipes* 172.
- Acetylcholine**,
chemoreception, structure-activity relationships, *Marthasterias glacialis* 378.
containing pathway, olfactory bulb, rats 428.
immunohistochemistry localization, neurons, olfactory bulb, cats 820.
- Acetylcholine receptors**,
muscarinic, binding, correlation choline acetyltransferase activity, developmental stages, olfactory bulb, rats 426.
- Achatina fulica**,
olfactory system, mapping, tentacles, brain 42.
- Achlys ambisexualis**,
methionine, chemotaxis 123.
sex pheromone-binding protein 497.
- Acleria sparsana**,
sex pheromone, (Z)-11-tetradecenal, (E)-11-tetradecenal 512.
- Acleria tripunctata**,
sex pheromone, (Z)-11-tetradecenal, (E)-11-tetradecenal 512.
- Acrolathys falsarius**,
attractancy, pheromones, isomers, 2-butyl-(Z)-7-tetradecanoate 1342.
- Acossus centesaria**,
flight activity, pheromone traps (E,E)-3,5-tetradecadienyl acetate, relationship catches 185.
- Acquired immune deficiency syndrome**,
chemotaxis, monocytes, man 113.
- Acremonium loliae**,
infection, *Lolium perenne*, isolation, antifedants, *Listronotus bonariensis* 945.
- Acroleptopis assectella**,
chemoreception, volatiles, host plants, electroantennograms 752.
odors, electroantennograms, orientation, *Diadromus pulchellus*, *Diadromus collaris* 1306.
oviposition, attractancy, host plants, chemical perception 1234.
- Acromyrmex landolti**,
chemical communication, workers, relationship evolution 1286.
- Actin**,
cytoskeleton, chemotaxis, *Dictyostelium discoideum* 118.
role, cytoskeleton, relationship chemotaxis, *Dictyostelium discoideum* 121.
- Actinidia deliciosa**,
ripening, storage, maturity effects on aroma compounds volatiles 281.
- Actinins**,
pheromones, defense secretions, isolation, *Phasmoda* 615.
- Actinomycetes**,
water pH, production, odor compounds 1460.
- Actinopneales missouriensis**,
zoospores chemotaxis, *Curvularia lunata*, *Fusarium solani* 875.
- Active transport**,
binding proteins, tertiary structure, stereospecificity, periplasmic space, gram-negative bacteria 868.
- Acute promyeloid leukemia**,
chemoreceptors, lymphocytes T, man 828.
- Adaptations**,
environmental effects role morphology, olfactory organs 774.
taste, habituation, man 790.
taste, tests, man 407.
- Additives**,
effects on attractancy, trimedure, *Ceratitis capitata* 1323.
- Adenine**,
endothelium cells migration behavior, pigs 839.
- Adenosine**,
endothelium cells migration behavior, pigs 839.
- Adenosine A1 receptors**,
mediation, adenosine inhibition, cortex (olfactory), rats 15.
- Adenosine receptors**,
modulation, taste intensity, sweeteners, tongue, man 799.
- Adenosinetriphosphatase**,
effects on sex pheromone biosynthesis, fat body, *Anthonomus grandis* 1248.
- Adenylylate cyclase**,
activation, role cyclic AMP receptors, *Dictyostelium discoideum* 1225.
odors activation, GTP-binding protein, cell membranes, olfactory nerve 429.
- Adhesives**,
pheromone traps, sex pheromone, pest control, *Agrotis segetum* 1325.
- Adoption**,
odors transfer, sheep 1365.
- Adoretus**,
trapping, attractants, South Africa 1276.
- Adoxophyes**,
females, calling behavior, sex pheromone, conspecific odors effects on 519.
sex pheromone, isolation, chemical composition, attractancy 521.
sex pheromone, orientation 903.
- Adoxophyes orana**,
antennal sensilla, pores, ultrastructure, chemoreceptors, mechanoreceptors 421.
olfactory stimuli, sex pheromone, reproductive behavior, males 513.
pheromone traps, sex pheromone, efficacy 1332.
sex pheromone, chemical composition, (Z)-9-tetradecenyl acetate,
- Adoxophyes orana**, (continued)
(Z)-11-tetradecenyl acetate 908.
sex pheromone, sex glands extracts, effects on mating behavior 506.
- Adoxophyes orana fasciata**,
pheromone traps catches, *Malus orchards*, Japan 582.
sex pheromone, chemical composition, isolation, attractancy 520.
- Adoxophyes privata**,
synthetic sex pheromone attractancy, Taiwan 1275.
- ADP**,
endothelium cells migration behavior, pigs 839.
- Adrenal gland**,
effects on sex pheromone, puberty, females, mice 623.
- Adrenergic nerves**,
neuropeptide Y fibers identification, carotid body, rats 1154.
- Adrostenes**,
5 α -androster-16-en-3-one role olfactory thresholds, man 1164.
- Adults**,
taste buds, morphology, distribution, *Typhlonectus compressicaudus* 1185.
- Aedes aegypti**,
host searching behavior, regulation, chemoreceptors, hormones 550.
- Aeration**,
use odor pollution control, slurries, pigs 1439.
use odor pollution control, slurries, pigs 1440.
- Aerobic bacteria**,
use odor pollution control, slurries, pigs 1441.
- Aerobic conditions**,
aroma compounds biosynthesis, yeasts 303.
- Aerotaxis**,
oxygen, *Escherichia coli* mutants 485.
- Affinity labelling**,
characterization, chemoreceptors, leukocytes (neutrophilic), rabbits 437.
- Agaricus bisporus**,
fruit bodies, taste discrimination, *Delidopsis virginiana* 269.
- Agm**,
association attractancy, aggregation pheromone, *Blattella germanica* 1304.
effects on aroma compounds chemical composition, wine 1057.
effects on chemical composition, cheese flavor 277.
effects on milk, taste panel evaluation 1109.
effects on olfaction, man 1167.
effects on olfactory perception, man 789.
effects on taste buds, monkeys 401.
effects on taste perception, statistical analysis, man 1162.
factors affecting, attractancy, aggregation pheromone, *Dermestes maculatus* 926.
odors enhancement, taste aversion learning, rats 1023.
relationship, dispersal, secretions, *Blattella germanica* 555.
relationship, sex pheromone levels, diel periodicity, *Heliothis zea* 158.
role, olfaction, use, aversion learning, rats 259.
role taste perception threshold, man 791.
washing, organoleptic evaluation, eggs 368.
- Agglutins**,
Phaseolus vulgaris, axonal transport, synapses, morphology, ventral striatal cells, olfactory tubercle, rats 54.
wheat germ, characterization, N-formyl-methionyl-leucyl-phenylalanine induction leukocytes (polymorphonuclear) chemotaxis inhibition 453.
wheat germ, inhibition N-formyl-methionyl-leucyl-phenylalanine induction leukocytes (polymorphonuclear) chemotaxis, man 458.
- Agglutinin receptors**,
binding, characterization, olfactory system, rats, mice 1140.
- Aggregation behavior**,
chemical stimuli, ecological evaluation, *Paranirius interruptus* 165.
pheromone traps, attractants, *Orthotomus erosus* 882.
pheromones, antagonists, effects on, *Lasioederma sericorne* 919.
role, host plants volatiles, *Hylobius abietis* 1307.
- Aggregation pheromone**,
attractancy, association age, sex, *Blattella germanica* 1304.
attractancy, brevicorn, frontal, *Pinus ponderosa*, *Dendroctonus brevicornis* 570.
attractancy, factors affecting, age, mating, *Dermestes maculatus* 926.
biosynthesis, sex differences, myrene exposure, *Dendroctonus ponderosae* 1300.
chemical communication, *Argas persicus* 1280.
chemical composition, esters, 2-methyl-(E)-2-butenic acid, *Drosophila virilis* 568.
chemical composition, vaccenyl acetate, *Drosophila melanogaster* 564.
chemical composition, 5-hydroxy-4-methyl-3-heptanone, *Sitophilus oryzae*, *Sitophilus zeamais* 585.
constituents synthesis, *Culex pipiens fatigans* 1039.
detection methodology, orienting response, taxis, *Blattella germanica* 552.
effects on walking, pest attack, *Picea abies*, *Ips typographus* 1292.
factors affecting attractancy, *Sitophilus zeamais* 938.
females, mouthparts, *Phlebotomus papatasi* 551.
ferrulactone, synthesis, *Cryptolestes ferrugineus* 1045.
grandisol, grandisol, interspecific attractancy, *Pissodes strobi*, *Pissodes approximatus*, *Pissodes nemorensis* 1301.
grandure, orientation, *Anthonomus grandis* 576.
identification, characterization, *Oryzaephilus mercator*, *Oryzaephilus surinamensis* 578.
identification, guanine, *Argasidae*, *Ixodidae* 553.
isolation, chemical composition, carboxylic acids, *Blattella germanica* 562.
orientation, oviposition, erythro-6-acetoxy-5-hexadecanolic acid, *Culex quinquefasciatus* 156.
pheromone traps, attractancy, pheromones, *Pityogenes chalcographus* 964.
pheromone traps, pest status, monitoring, pest control, *Ips typographus*, *Trypodendron lineatum* 962.
production, methoprene stimulation, use, pest control, stored products, *Coleoptera* 606.
release sites, genitalia, anus, *Argas walkerae* 423.
response, host plants volatiles effects on, *Scolytidae* 574.
role, vitellinogenesis, *Blattella fusca* 175.
sex pheromone, isolation, attractancy, *Triatoma mazzottii* 1284.
synergism, brevicorn, chemical communication, *Dendroctonus frontalis* 1345.
synthesis, lineatin, *Trypodendron lineatum* 275.
- Aggressive behavior**,
inhibition, effects on scent marking behavior, urine odors, males, mice 1011.
mice, induction, 5 α -androster-16-en-3-one, urine odors, pigs 630.
role chemosignals, accessory gland, characterization, males, mice 1371.
siblings recognition, correlation genetic variability, body odors, *Apis mellifera* 203.

- Aging**,
computers analysis, wine flavor 282.
effects on Cheddar cheese chemical composition, high-performance liquid chromatography 1069.
olfactory perception, man 798.
zinc effects on leukocytes (granulocytic) chemotaxis 90.
- Agrotis**
sex pheromone, isolation, chemical composition 1240.
sex pheromone chemical composition, (Z)-9-tetradecenyl acetate, (Z)-5-tetradecenyl acetate 922.
- Agrotis segetum**,
catches, *Xestia c-nigrum* pheromone traps 1331.
pest control, sex pheromone, pheromone traps, adhesives 1325.
pheromone traps, synthetic sex pheromone, climatic conditions 984.
sex pheromone, chemical composition 922.
sex pheromone, chemical composition, attractancy, (Z)-5-decenyl acetate, (Z)-7-dodecenyl acetate, (Z)-9-tetradecenyl acetate 532.
sex pheromone chemical composition variation, population studies, ecological evaluation, Europe 885.
sex pheromone, flight activity, mating behavior, males 528.
- Airborne particles**,
odor pollution control 1428.
- Aluga**,
antifeedants, clerodane diterpenoids, plant extracts, *Spodoptera littoralis* 563.
- Alarm behavior**,
association alarm pheromone, quantitation methodology, breeding, *Apis mellifera* 204.
chemical communication, evolution, Formicidae 1295.
- Alarm pheromone**,
androgens effects on epithelium cells, *Semotilus margarita* 1003.
association alarm behavior, quantitation methodology, breeding, *Apis mellifera* 206.
containing epidermis, cells, 17 α -methyltestosterone inhibition, sexual reproduction, *Brachydanio rerio* 1002.
use, repellents, crops, *Apis mellifera* 199.
- Alcoholic beverages**,
flavor compounds formation, reaction mechanisms 685.
fruit juices flavorings chemical composition, hexobarbital, *Malus* 1409.
taste, role, ethanol taste aversion learning, rats 1372.
- Alcohols**,
effects on chemical composition volatiles aroma compounds, apples 279.
role, aroma compounds synthesis, apples 677.
- Aldehyde dehydrogenase**,
metabolism, pheromones, cuticle, *Choristoneura fumiferana* 754.
- Aldehydes**,
high-performance liquid chromatography, wine, fruit juices, vegetables juices 1073.
- Aleochara curtula**,
sex pheromone, relationship, development production sites 1170.
- Algae**,
sex pheromone, chemical communication, water chemistry, reviews 882.
- Algal blooms**,
olfaction, EEG, olfactory bulb, *Chattonella*, *Seriola quinqueradiata*, *Pagrus major* 759.
- Aliphatic alcohols**,
chemoreceptors, response, trigeminal nerve, rats 769.
effects on chemotactic factors, leukocytes (polymorphonuclear), blood, man 859.
- Alkaloids**,
ingestion, use biosynthesis sex pheromone, *Insecta* 1242.
- Alkanal monooxygenase (FMM-linked)**,
affinity, biosensor, pheromones, *Antheraea pernyi*, *Heliothis armigera* 1238.
- n-Alkyls**,
electroantennograms, systematics, biotypes, *Conogethes punctiferalis* 1042.
- Alkylthiazoles**,
aroma 290.
- Allium**,
Acroliopsis assectella host plants, orientation, electroantennograms, *Diadromus pulchellus*, *Diadromus collaris* 1306.
chemical composition, flavor 1066.
chemical composition, flavor 1067.
flavor chemical composition comparison organoleptic evaluation 1112.
- Allium cepa**,
phagostimulants, sugars, *Hylemya antiqua* 554.
tubers, like odors, *Marrasmius kallionaeus* 746.
- Allium sativum**,
 γ radiation effects on flavor chemical composition 304.
- Allopurinol**,
effects on leukocytes (neutrophilic) chemotaxis, blood, man 852.
- Allylthiocyanate**,
flight activity, relationship, host plants, odors, plumes, anemotaxis, *Delia radicum* 559.
- Almitrine bismesilate**,
reaction mechanisms, effects on chemoreceptors 785.
- Alsophila pomatiaria**,
pest control, disruption, mating, orientation, sex pheromone synthetic 1340.
- Amata**,
olfactory stimuli, pyrazines, predation, defensive mechanisms 1272.
- Amblyoma cohaerens**,
aggregation pheromone, identification, guanine 553.
- Amblyseius potentillae**,
diets, effects on host searching behavior, diapause induction, *kairouma* 1305.
- Ambrosiozyma monospora**,
volatiles, flavor compounds, monoterpene 674.
- Ambystoma jeffersonianum**,
reproductive strategy, unisexual populations, identification, fitness, chemical stimuli 1384.
- Ambystoma tigrinum**,
volatiles stimuli, olfaction 761.
- Amino acid composition**,
phagostimulants, effects on feeding behavior, *Dacus oleae* 1294.
- Amino acid sequence**,
olfactory system proteins, reviews 814.
predictions, chemotaxis proteins, genes, nucleotide sequence, *Escherichia coli* 480.
- Amino acids**,
chemoreception, *Bulinus rohrli* 1348.
chemoreception, structure-activity relationships, *Marthasterias glacialis* 378.
chemotaxis, thermophilic bacteria 129.
effects on beer flavor 1089.
effects on locomotion *Mayorella penardi* 116.
effects on organoleptic properties, wine, *Vitis vinifera* 1098.
excitatory, induction desensitization response, characterization, cortex (olfactory), rats 757.
gustatory stimuli, association, feeding behavior, *Periplaneta americana* 575.
neurotransmitters, olfactory bulb response, EEG, medulla oblongata, *Pagrus major* 385.
stimulation olfactory bulb, *Rana temporaria* 764.
structure-activity relationships, chirality, sweetness 308.
taste, *Rana sphenoccephala* 1152.
- L-Amino acids**,
hydrophobicity, bitterness, taste 684.
- Amino acids receptors**,
electrophysiology, olfactory organs, *Ictalurus punctatus* 8.
phagostimulants, *Leptinotarsa decemlineata* 399.
- γ -Aminobutyric acid**,
containing neurons, cortex (entorhinal), olfactory bulb afferent projections, anatomy, immunoelectron microscopy, rats 60.
containing pathway, olfactory bulb, rats 428.
inhibition, muricide, olfactory bulb, rats 767.
- Amiloride**,
inhibition ethanol induction taste aversion, conditioned response, mechanisms, rats 1014.
- Ammonium acetate**,
+color, traps, *Dacus oleae* 971.
- Ammonium carbonate**,
pheromone traps, pest control, *Dacus oleae* 974.
- Amoxicillin**,
effects on leukocytes (granulocytic) chemotaxis, man, rabbits 446.
- Amphipyrinae**,
sex pheromone, taxonomic significance, chemical composition 923.
- Amyeloid transistella**,
sex pheromone, glands, location, bioassays 805.
- Amygdala**,
lesions, effects on olfactory discrimination, rats 4.
- Anaerobic conditions**,
aroma compounds biosynthesis, yeasts 303.
- Anagasta kuehniella**,
sex pheromone, interspecific attractancy, *Pyralidae* 897.
- Anaesthesia**,
odors induction, defeat, males, mice 1009.
- Anarsia lineatella**,
population levels, monitoring, use, pheromone traps, USA, California 604.
- Anastrepha ludens**,
males sex pheromone, orientation 536.
pheromones, males, electroantennograms 751.
sex pheromone, chemical composition, attractancy 905.
- Anastrepha suspensa**,
feeding behavior, olfactory perception, radiation effects on 170.
parasitoids, host searching behavior, olfactory stimuli 1299.
- Anatomy**,
chemoreceptors, Crustacea 1200.
- Ancylis**,
synthetic attractants, 9,11-dodecadienyl alcohols, 9,11-dodecadienyl acetates, 9,11-dodecadienyl aldehydes 665.
- Anchylostoma caninum**,
larvae chemotaxis, dogs serum chemotactic agents 134.
- Andrena fuscipes**,
pollination, role, semiochemicals, *Ophrys lutea* 1302.
- Androgens**,
effects on alarm pheromone epithelium, epithelium cells 1003.
effects on development, mitral cells, olfactory bulb, rats 1175.
urine odors, estrus cycle, reproductive behavior, mice 222.
- 5 α -Androst-16-en-3-one receptors**,
binding, pheromones, olfactory epithelium, mice 46.
- 5 α -Androst-16-ene-3-one**,
urine odors, pigs, induction, aggressive behavior, mice 630.
- Androstenone**,
role, taints, submaxillary gland, pigs 1095.
- Anemotaxis**,
chemotaxis, flight activity, host location, *Glossina pallidipes*, *Glossina morsitans* 571.
host plants, odors, plumes, relationship, flight activity, allylthiocyanate, *Delia radicum* 559.
- Anesthesia**,
induction, taste aversion, rats 1020.
- Anestrus**,
olfactory bulb ablation prevention, short photoperiod induction, hamsters 1173.
- Anethum graveolens**,
gas chromatography, aroma compounds 1398.
- Angelica archangelica**,
antifeedants, plant extracts, *Pieris brassicae* 557.
- Angelica dahurica**,
2-hydroxy-3,4-dimethyl-2-buten-4-olide, flavor compounds 687.
- Angiotensin II**,
microinjection, septum, effects on taste preferences, rats 270.
- Anhydrosericoin**,
sex pheromone, activity, males, *Lasioderma sericorne* 545.
- Animal wastes**,
odor control, digestion (aerobic), heterotrophic bacteria 1423.
- Anolis**,
palatability, *Neocoryphus bicrucis* 266.
- Anomala**,
trapping, attractants, South Africa 1276.
- Anomala rufocuprea**,
sex pheromone, isolation, methyl (Z)-5-tetradecenoate 140.
- Anomalia**,
olfaction, nutritional status, food intake, man 37.
- Antennae**,
chemoreceptors, structure-activity relationships, pheromones, *Insecta* 994.
olfaction chemoreceptors, ATP sensitivity, characterization, *Panulirus argus* 756.

Antennae, (continued)

secretions, role, settling behavior, immature stages, *Balanus balanoides* 989.

Antennal sensilla,

morphology, adults, nymphs, *Paragnetina media* 40.
morphology, *Boarmia selenaria* 1171.
morphology, sensory neurons, *Typhloblaniulus lorifer*, *Cylindroiulus punctatus* 803.

olfactory organs, ultrastructure, development, *Calliphora erythrocephala* 38.
pheromones detection, neurophysiology, morphology, *Trichoplusia ni* 1128.
pores, ultrastructure, chemoreceptors, *Yponomeuta vigintipunctatus*, *Yponomeuta cagnagelii*, *Adoxophyes orana* 421.
ultrastructure, innervation, *Conotrachelus nenuphar* 802.

Antheraea polyphemus,

olfactory organs, sensilla membranes, electrical properties 1.

Antheraea pernyi,

pheromones, affinity, biosensor, *Vibrio fischeri* alkalane monooxygenase (FMN-linked) 1238.

Antheraea polyphemus,

calling behavior, relationship, sex pheromone, (E)-2-hexenal 499.

pheromones, binding, hydrolysis, enzymatic activity 887.

sex pheromone degradation enzymes, scales 753.

surfaces coats, sensory neurons+olfaction sensilla 422.

Anthrenus grandis,

glucose, adenosinetriphosphatase, effects on, sex pheromone, biosynthesis, fat 1245.

orientation, aggregation pheromone, food plants volatiles 576.

pest control, pheromone traps, grandure, USA 958.

phagostimulants, identification, *Gossypium hirsutum* 566.

pheromone traps, detection, pest control, Paraguay 959.

pheromones, attractancy, inhibition, synthetic intermediates 670.

Staphylococcus aureus enterotoxin B effects on sex pheromone production, males 893.

Anthrenus grandis grandis,

bioassays, detection feeding behavior, association semiochemicals 1289.

Anthrax,

chemotaxis inhibition, leukocytes (polymorphonuclear) 465.

Anthrenus verbasci,

sex pheromone, isolation, (Z)-5-undecenoic acid, (E)-5-undecenoic acid 142.

Antibacterial agents,

immunosuppression chemotaxis, leukocytes (neutrophilic) 70.

Anticarsia gemmatilis,

adults, pheromone traps, monitoring, population levels 591.

Antifeedants,

association regurgitation, minerals, isoptera 181.

bioassays, *Aceromonium loliae* infection, *Lolium perenne*, *Listronotus bonariensis* 945.

chemical composition, plant extracts, *Tylophora asthmatica*, *Spodoptera litura* 929.

clerodane diterpenoids, plant extracts, *Ajuga*, *Spodoptera littoralis* 563.

isolation, *Plectranthus barbatus*, biological control, *Schizaphis graminum* 581.

pheromones, biosynthesis, Insecta, pest control, plant breeding, crops 943.

plant extracts, bioassays, *Melanotus communis* 163.

plant extracts, *Pieris brassicae* 557.

plant extracts, *Vismia*, *Noctuidae*, *Acrididae* 561.

pungent, synthesis, efficacy, *Choristoneura fumiferana* 1041.

structure-activity relationships, isoflavonoids, *Costelytra zealandica* 569.

synthesis, structure-activity relationships, Insecta 173.

Antifungal agents,

immunosuppression chemotaxis, leukocytes (neutrophilic) 70.

Antigen-antibody complexes,

leukocytes, chemotaxis, bullous pemphigoid, epidermolysis bullosa, man 96.

leukocyte activity (granulocyte) chemotaxis, mucocutaneous lymph node syndrome, man 409.

Antiinflammatory agents,

effects on leukocytes (polymorphonuclear) chemotaxis, rats 834.

Antimicrobial agents,

drugs, flavorings, children, man 747.

Antineoplastic drugs,

effects on taste perception, man 787.

immunosuppression chemotaxis, leukocytes (neutrophilic) 70.

Anus,

glands, atrophy, social environment, conspecific odors, *Microtus agrestis* 1190.

glands, functional morphology, pheromones dissemination, *Ceratitis capitata* 920.

glands, secretions chemical composition, *Mustela erminea*, *Mustela putorius* 661.

odors, production, *Marmota* 272.

release sites, aggregation pheromone, *Argas walkerae* 423.

Aonidiella aurantii,

population levels monitoring, pest control, pheromone traps 596.

sex pheromone, components synthesis, females 1047.

sex pheromone synthesis, females 1046.

Apanteles kariyai,

kairormones, host searching behavior, hosts, secretions, *Pseudaletia separata* 556.

kairormones, isolation, characterization, *Pseudaletia separata* 931.

Aphelia viburnana,

sex pheromone, (Z)-11-tetradecenal, (E)-11-tetradecenal 512.

Aphyllis,

hosts recognition, host selection, kairormones, *Diapsididae* extracts 993.

Apis mellifera,

alarm behavior, association alarm pheromone, quantitation methodology, breeding 206.

body odors, aggressive behavior, siblings recognition, correlation genetic variability 203.

chirality, pheromones 524.

flowers, olfactory stimuli, foraging behavior, *Lotus corniculatus* 951.

foraging behavior, chemoreception, odors 168.

foraging behavior, conditioning, olfactory stimuli, volatiles, *Helianthus* 942.

mandibular glands, queens, ultrastructure, secretions, pheromones 810.

repellents, use, alarm pheromone, repellents 199.

social organization, colonies, dominance, queens 991.

Apium graveolens,

temperature+light effects on flavor 1495.

Aplysia,

feeding behavior, chemical stimuli, bioassays 1274.

Aplysia fasciata,

population, induction, pheromones, large hermaphroditic duct homogenates 150.

Apodemus,

social organization, correlation, odors, comparison, *Microtus*, *Clethrionomys* 235.

Apodemus sylvaticus,

home range, scent marking behavior, feces 241.

olfactory discrimination, conspecific odors, effects on trapping, live capture 1006.

Apple juice,

organoleptic evaluation, ripening, storage effects on 352.

Apples,

aroma compounds synthesis, alcohol role 677.

aroma compounds volatiles chemical composition, alcohols effects on 279.

flavor compounds, chemical analysis 715.

Arbacia punctulata,

food preferences, chemotaxis, seaweeds 949.

Archippus brevicipitatus,

pheromone traps, catches, relationship, dispersal 594.

Arctiidae,

calling behavior, sex pheromone 136.

Argas persicus,

aggregation pheromone, identification, guanine 553.

chemical communication, aggregation pheromone 1280.

Argas walkerae,

aggregation pheromone, release sites, genitalia, anus 423.

Argasidae,

aggregation pheromone 1280.

Arginine,

roots exudates, zoospores chemotaxis, *Phytophthora cinnamomi*, disease resistance, susceptibility, *Vitis vinifera* 1231.

Argyrotea citrana,

pheromone traps, catches, females 952.

Argyrotea velutinana,

sex pheromone, attractancy, males 911.

sex pheromone, biosynthesis 893.

Aroma,

alkylthiazoles 290.

chemical composition, wine 283.

chemical composition, 4-methoxy 2-methyl 2-mercapto-butane, *Ribes nigrum* 1402.

chromatography, chemical composition, seeds, *Trigonella foenum graecum* 1400.

ethyl ether volatiles analysis, gas chromatography methodology 373.

kefir fermentation, flavor 334.

organoleptic evaluation, coffee 353.

production, soy sauce fermentation, *Aspergillus oryzae* 326.

production, vapors mixtures methodology, *Utman aromataz* 743.

volatiles, chemical composition, *Mangifera indica* 1401.

volatiles, fishery products, saucers 1403.

Aroma compounds,

biosynthesis, aerobic conditions, anaerobic conditions, yeasts 303.

biosynthesis, isolation, cheese, *Lactobacillus helveticus* 673.

biosynthesis, microorganisms, reviews 1471.

chemical composition, age effects on, wine 1057.

chemical composition, champagne 1058.

essential oils 885.

gas chromatography, *Anethum graveolens* 1398.

hops, distillation methodology effects on, beer 713.

hops essential oils, beer 296.

2,6-lutidine hydroxylation, fungi, *Pseudomonas* 302.

role of flavor, Cheddar cheese, microorganisms 1094.

solvents, industrial effluents, thermodynamics, physicochemical properties 1404.

soil, brewing, reviews 676.

synthesis, alcohols role, apples 677.

terpenoids, aromatic alcohols, grapes 1056.

volatiles, apples, chemical composition, alcohols effects on 279.

volatiles, chemical composition, sweet potatoes, *Ipomoea batatas* 293.

volatiles, guavas 278.

volatiles, ripening, blueberries 287.

volatiles, ripening, storage, maturity effects on, kiwifruit 281.

Aromatic alcohols,

aroma compounds, grapes 1056.

Aromatic-L-amino acid decarboxylase,

olfactory organs, distribution, rats 51.

Artemisia absinthium,

antifeedants, plant extracts, *Pieris brassicae* 557.

Arthritis,

hydroxyapatite crystals, inflammation, leukocytes (neutrophilic) chemotaxis, hemodialysis, man 30.

Arthropoda,

pest control, pheromone traps, *Olea europaea*, books 1125.

Asarum canadense,

essential oils, chemical composition 705.

Asbestos,

chronic effects, macrophages activation, chemotactic factors, induction, leukocytes (neutrophilic), inflammation, lung, sheep 31.

effects on chemotactic factors, macrophages, lung, man 98.

inhalation, lung, chemotactic factors release, macrophages, rats 440.

inhalation, macrophages chemotaxis, lung, rats 1207.

Ascaris suum,

sexual behavior, sex pheromone 918.

Asclepias tuberosa,

plant extracts, antifeedants, bioassays, *Melanotus communis* 163.

Aspartame,

fructose mixtures saccharin, acesulfame K comparison, sweetness, taste panel evaluation 354.

sweetness, bitterness, taste, structure-activity relationships 1076.

taste panel evaluation 363.

taste preferences, rats 1030.

Aspartic acid,

analogs, taste, sweeteners 1413.

desensitization, cortex (olfactory), rats 1180.

Aspergillus oryzae,

proteinase effects on maturation Cheddar cheese, cheese flavor 1085.

soy sauce fermentation, aroma production 326.

Asphyxia,

olfaction reflexes, neonates, man 36.

Astacus leptodactylus,

oxygen chemoreceptors 20.

Asthma,

chemotactic factors, leukocytes (eosinophilic), chemotaxis, leukocytes (mononuclear), man 445.

- Asthma, (continued)**
odors, olfactory perception defects, man 420.
- Astrocytes**,
cortex, chemotactic response, platelet-derived growth factor, rats 132.
- Athetis hospes**,
sex pheromone, attractancy, identification 148.
- Atmosphere**,
spoilage, organoleptic evaluation, freezing, *Hyperglyphe porosa* 325.
- ATP**,
role chemotaxis, *Salmonella typhimurium* 126.
sensitivity, olfaction chemoreceptors antennae, characterization, *Panulirus argus* 756.
- Atta cephalotes**,
nests, recognition pheromones 621.
pheromones, characterization, purification, role, leaves transport 936.
- Attractancy**,
additives effects on, trimedure, *Ceratitis capitata* 1323.
aggregation pheromone, association, age, sex, *Blattella germanica* 1304.
aggregation pheromone, *bravicornis*, frontal, *Pinus ponderosa*, *Dendroctonus brevicornis* 570.
aggregation pheromone, factors affecting, *Dermestes maculatus* 926.
bait, comparison, eugenol, 8R-methyl-2R-decyl propanoate, *Diabrotica barberi*, *Diabrotica virgifera virgifera* 185.
bait, turpentine, *Scolytidae*, *Curculionidae* 197.
bait, 1-octen-3-ol, acetone, carbon dioxide, *Glossina* 198.
carrion, *Oiceoptoma novaezelandiae* 159.
chemical communication, in vitro, *Schistosoma* 1350.
chemical communication, males fitness, offspring heritability, *Tribolium castaneum* 884.
comparison conspecifics, sex pheromone, *Melittobia australica*, *Melittobia digitata*, *Melittobia femorata* 157.
females, males genital tract sex pheromone, *Musca domestica* 500.
interspecific, aggregation pheromone, grandisil, grandisil, *Pissodes strobi*, *Pissodes approximatus*, *Pissodes nemorensis* 1301.
interspecific, sex pheromone, *biosais*, *Matsucoccus* 910.
interspecific, sex pheromone, *Pyralidae* 897.
Ishige okumurai food sources, feeding, *Haliotis discus* 558.
organic compounds, food, *Tyrophagus putrescentiae* 933.
pest control, methyl eugenol, economics, *Dacus dorsalis* 588.
pheromone traps, aggregation pheromone, pheromones, *Pityogenes chalcographus* 964.
pheromone traps, *Choristoneura occidentalis* 586.
pheromone traps, *Lepidopterus varius*, *Hylurgops palliatus*, *Dryocetes autographus* 144.
pheromone traps, pesticides effects on, *Orygia pseudotsugata*, *Choristoneura occidentalis*, *Eucosma sonomana* 186.
pheromone traps, (Z)-7,9-dodecadienyl acetate, *Epinotia* 601.
pheromones, inhibition, synthetic intermediates, *Anthonomus grandis* 670.
pheromones, isomers, 2-butyl-(Z)-7-tetradecanoate, *Harrisina americana*, *Acolithus falsarius* 1342.
pheromones, *Vespula maculifrons*, *Podisus fretus* 939.
response, lineatin, α -pinene, *Trypandendron lineatum*, *Trypandendron domesticum* 603.
sex pheromone, *Adoxophyes* 521.
sex pheromone, *Anastrepha ludens* 905.
sex pheromone, calling behavior, *Fumbotrys fumalis* 504.
sex pheromone, chemical composition, *Diachrysa chrysitis*, *Diachrysa tutti* 917.
sex pheromone, chemical composition, *Harrisina brillians* 137.
sex pheromone, correlation, chemical composition, *Drosophila melanogaster* 516.
sex pheromone, *Daphnia nitidus* 901.
sex pheromone, *Feltia jaculifera* 518.
sex pheromone, inhibition, *Ips acuminatus*, *Ips sexdentatus* 1237.
sex pheromone, isomers, *Diabrotica lemniscata*, *Diabrotica longicornis* 1269.
sex pheromone, *Lepidoptera* 148.
sex pheromone, males, *Trichoplusia* 11, *Argyrotaenia velutinana*, *Grapholita molesta* 911.
sex pheromone, *Opogona sacchari* 527.
sex pheromone, pest control, *Gortyna xanthenes* 904.
sex pheromone, pheromone traps, *Lepidoptera* 602.
sex pheromone, *Scotellodes cordalis* 1262.
sex pheromone, *Spodoptera frugiperda* 1261.
sex pheromone, *Synanthedon dominicki* 880.
structure-activity relationships, synthetic sex pheromone, *Periplaneta americana* 514.
synthetic pheromones, *Picea abies* forest residues, *Ips typographus* 946.
synthetic sex pheromone, *Adoxophyes privata*, *Homona magnanima*, Taiwan 1275.
synthetic sex pheromone, females, *Xylotrechus pyrrhoderus* 1043.
urine, cattle, buffaloes, *Glossina pallidipes* 192.
- Attractants**,
activity, Ishige okumurai extracts, *Haliotis discus* 950.
bait, *Supella longipalpa*, *Periplaneta americana*, *Blattella germanica* 980.
chemical composition, volatiles, *Cucurbita maxima*, *Diabrotica undecimpunctata howardi*, *Diabrotica virgifera virgifera*, *Acalymma vittatum* 940.
configurations, chemistry, gametes, *Syringoderma phinneyi* 1226.
9,11-dodecadienyl alcohols, 9,11-dodecadienyl acetates, 9,11-dodecadienyl aldehydes, *Cosmopolix gemmiferella*, *Dichrorampha simulana*, *Tortricidia testacea*, *Ancylis* 665.
efficacy, butyl acetate, *Glioscichilus quadrisignatus* 184.
efficacy, chemical composition, *Musca vetustissima* 965.
males, use, traps, relationship, females capture, *Tephritidae* 1335.
olfactory stimuli, 1-octen-3-ol, acetone, carbon dioxide, *Glossina morsitans morsitans*, *Glossina pallidipes* 172.
Oryzaephilus surinamensis, volatiles chemical composition, *Avena* 579.
pest control, frontal, *Dendroctonus frontalis* 1314.
phenols, kairomones, urine, *Syncoerus caffer*, *Glossina pallidipes* 967.
pheromone traps, aggregation behavior, *Orthocentrus erosus* 982.
pheromone traps, monitoring, flight activity, *Pexipocia malvella*, *Platyedra subcinerea* 968.
pherocarp, effects on flight activity, *Ips typographus* 572.
sex pheromone, *Popillia japonica*, *Popillia taiwana*, *Popillia indigonea* 1313.
spermatozoa, *Phaeophyta*, Australia 1227.
stereospecificity, effects on nervous system, *Musca domestica* 381.
synthesis, synergism, (Z,E)-3,5-tetradecadienyl acetate, *Prionoxystus robiniae* 907.
trapping, *Scarabaeidae*, South Africa 1278.
use, *Zea mays* roots volatiles, *Diabrotica* 176.
- Auditory evoked potentials**,
medulla oblongata, tectum, external stimuli effects on, *Rutilus rutilus* 1184.
- Avena**,
volatiles, chemical composition, *Oryzaephilus surinamensis* attractants 579.
- Aversion**,
denatonium saccharide, rats 1373.
- Aversion learning**,
burying behavior, defensive behavior, induction, odors olfactory perception, flavor taste perception, rats 647.
environments, taste mediation, potentiation, overshadowing, rats 1017.
ethanol, olfaction, role, UCS, juveniles, rats 648.
olfactory stimuli-taste stimuli potentiation, rats 1378.
use, olfaction, role, age, rats 259.
- Aves**,
olfactory perception, navigation behavior, meteorology 663.
- Avoidance behavior**,
taste stimuli activation, deterministic vs. probabilistic models, rats 1032.
- Axonal transport**,
Phaseolus vulgaris agglutinins, synapses, morphology, ventral striatal cells, olfactory tubercle, rats 54.
- Axons**,
olfactory nerve, endoplasmic reticulum regulation, calcium intracellular levels, Rana 56.
olfactory nerve, heterogeneity, rabbits 1174.
patterns, mitral cells, tufted cells, connections olfactory nucleus (anterior), olfactory bulb, rats 52.
- Azodrin**,
taste aversion learning, food intake, iso-octyl 2,4-dichlorophenoxyacetate, *Poephila guttata castanotis* 653.
- Bacillus anthracis**,
toxins effects on leukocytes (polymorphonuclear) chemotaxis, man 438.
- Bacillus licheniformis**,
proteolysis, methanethiol odors, cheese 727.
- Bacillus subtilis**,
chemotaxis, behavior, biochemical characteristics 877.
methyl-accepting chemotaxis protein, methylation 487.
- Bacon**,
nisin effects on, organoleptic evaluation 1103.
odors, characterization, 3,5-disubstituted-1,2,4-trithiolane, 2,4,6-trisubstituted-4H-1,3,5 dithiazine 294.
volatiles, chemical composition 1051.
- Bacteria**,
chemotaxis, behavior, biochemical characteristics 877.
chemotaxis, comparison, olfactory perception, chemoreceptors, *Vertebrata* 368.
chemotaxis kinetics 491.
chemotaxis, mechanisms 128.
contamination, flavor, pasteurized milk 1084.
spoilage, odors, vacuum packaging, fishery products, *Salmonidae* 1091.
starter cultures, fermentation, organoleptic properties, salami, meat products 1086.
- Bait**,
attractancy, comparison, eugenol, 8R-methyl-2R-decyl propanoate, *Diabrotica barberi*, *Diabrotica virgifera virgifera* 185.
attractancy, frontal, terpinene-4-ol, *Polygraphus polygraphus* 191.
attractancy, turpentine, *Scolytidae*, *Curculionidae* 197.
attractants, *Supella longipalpa*, *Periplaneta americana*, *Blattella germanica* 980.
1-octen-3-ol, acetone, carbon dioxide, attractancy, *Glossina* 198.
pitfall traps, insects 189.
urine, attractancy, cattle, buffaloes, *Glossina pallidipes* 192.
- Baking**,
comparison microwave oven, heating effects on, organoleptic properties, fish 347.
- Balanus balanoides**,
settling behavior, immature stages, role, antennae secretions 989.
- Basidiomycetes**,
fruit bodies, taste discrimination, *Didelphis virginiana* 269.
- Beans**,
Glycine max, fermentation, *Streptococcus lactis* starter cultures, flavor, cheese substitutes 721.
Glycine max, fermentation, *Streptococcus lactis* starter cultures, flavor, cheese substitutes 1461.
 α radiation effects on, taste panel evaluation 345.
- Beef**,
food spoilage, odors, volatiles, development 722.
methodology, taste panel evaluation 357.
reconstitution, fats levels effects on organoleptic evaluation 359.
temperature, storage, microflora, effects on organoleptic evaluation 1102.
- Beer**,
amino acids effects on flavor 1089.
aroma compounds, hops essential oils 298.
canning effects on off flavor 730.
chemical composition, flavor, organoleptic evaluation 1106.
distillation, methodology effects on hops aroma compounds 713.
flavor compounds, chemical analysis, gas chromatography 1068.
flavor compounds, chemical composition 1075.
flavor maturation, yeasts metabolism, reviews 1463.
hops effects on flavor 1065.
organoleptic evaluation spectrophotometry comparison, bitterness 744.
- Behavior**,
chemotaxis, bacteria, biochemical characteristics 877.
olfactory nerve, olfactory perception, electrophysiology, unit activity 366.
- Behavioral genetics**,
scent marking behavior, gene regulation, habitat marking, *Drosophila melanogaster*, *Drosophila simulans* 610.
- Belongaster petiolata**,
chemical perception, cues, mating behavior 912.
- Bembeles**,
pheromones, synergism, octadecadienyl acetates, trapping 1327.
- Benzo(a)pyrene**,
effects on monocytes chemotaxis, psoriasis, man 835.
- Benzaldehyde**,
flavor threshold, EEG, dogs 384.
olfactory perception, man 794.

- lenzodiazepines receptors**, binding receptors neurons, olfactory epithelium, differentiation effects on, mice 813.
- chemotaxis**, monocytes, man 450.
- lenzyl alcohol**, aroma compounds, grapes 1058.
- leucocucumis**, ultrastructure, electron microscopy, chemoreceptors, mouth 826.
- leverages**, yogurt, strawberries flavor, taste panel evaluation 360.
- lcarbonates**, chemotaxis, *Oscillatoria* 488.
- lloasaya**, antifedants, *Acremonium loliae* infection, *Lolium perenne*, *Listronotus bonariensis* 945.
- conspecific odors, scent marking behavior, *Tupaia belangeri* 636.
- detection feeding behavior, association semiochemicals, *Anthonomus grandis* grandis 1289.
- feeding behavior, chemical stimuli, *Aplysia* 1274.
- interspecific attractancy, sex pheromone, *Matsucoccus* 910.
- olfaction signals, chemical communication, *Mammalia* 638.
- plant extracts, antifedants, *Melanotus communis* 163.
- plant extracts, oviposition stimulants, *Citrus natsudai*, *Papilio protenor* 1256.
- biological control**, *Brassica oleracea*, *Beta vulgaris*, sex pheromone chemical composition, *Mamestra brassicae* 985.
- breeding, selection, sex pheromone response, males, *Trogoderma granarium* 1318.
- inhibition larvae, oviposition, *Acanthoscelides obtectus*, *Leguminosae* 1311.
- lps cembrae, pheromone traps, *Gnathotrichus mabierius*, *Larix kaempferi* 1320.
- lps typographus, pheromone traps, catches, species composition 1319.
- pheromone traps, sex pheromone, *Dacus oleae*, *Olea* 1310.
- pheromones, controlled release, equipment, *Insecta* 182.
- pheromones, *Lobesia botrana*, *Clypea ambigua* 979.
- pheromones release, equipment, *Insecta* 183.
- Plectranthus barbatus antifedants, *Schizaphis graminum* 581.
- sex pheromone, *Spodoptera exigua*, *Spodoptera frugiperda*, *Spodoptera eridania* 986.
- Trichogramma minutum, kairomones, effects on, parasitism, *Choristoneura fumiferana*, USA, Maine 1316.
- llosteres longicaudatus**, host searching behavior, olfactory stimuli 1299.
- l-Bisabolol**, food plants volatiles, orientation, *Anthonomus grandis* 576.
- bitter principle**, buprestes, characterization, isolation, *Stigmodera macularia* 210.
- bitterness**, chemical composition, *Taraxacum* 1063.
- chirality, structure-activity relationships, 2,5-piperazinedione 307.
- extracts, taste panel evaluation, *Taraxacum* comparison *Cichorium intybus* 1104.
- organoleptic evaluation spectrophotometry comparison, beer 744.
- structure-activity relationships, taste, aspartame 1076.
- suppression, taste perception, tongue, man 25.
- taste, hydrophobicity, L-amino acids 684.
- taste, saccharin 342.
- C-terminus structure role, β -casein, cattle 691.
- lbiabera fusca**, aggregation pheromone, role, vitellogenesis 175.
- black tea**, flavorings, food additives 1418.
- lbiattella germanica**, aggregation pheromone, attractancy, association age, sex 1304.
- aggregation pheromone, detection methodology, orienting response, taxis 552.
- aggregation pheromone, isolation, chemical composition, carboxylic acids 562.
- attractants, bait 980.
- secretions, dispersal, relationship, age, sex differences 555.
- sex pheromone, isolation, chemical composition 1251.
- lbiapharopterous angustatus**, scent gland, secretions, chemical composition 1344.
- lbiapharta solieri**, pheromone traps, attractancy 1315.
- blindness**, effects on olfaction, man 1181.
- blocking factors**, pregnancy, testosterone effects on, olfactory stimuli, mice 625.
- blood**, aliphatic alcohols effects on chemotactic factors, leukocytes (polymorphonuclear), man 859.
- allopurinol effects on leukocytes (neutrophilic) chemotaxis, man 852.
- chemotaxis, leukocytes (neutrophilic), *Macaca mulatta* 846.
- leukocytes (neutrophilic) chemotaxis response, collagen fragments, man 832.
- plasma fermentation, effects on organoleptic evaluation, sausages, cattle 1479.
- p-arginine-1-lectine-calcium ionophores, chemiluminescence, leukocytes (polymorphonuclear), man 109.
- uterus, chemotaxis, leukocytes (polymorphonuclear), horses 78.
- lblueberries**, ripening, volatiles, aroma compounds 287.
- lboarmia senaria**, morphology, antennal sensilla 171.
- body odors**, aggressive behavior, siblings recognition, correlation genetic variability, *Apis mellifera* 203.
- effects on feeding behavior, predator-prey interactions, *Gulo gulo*, *Lepus americanus* 1026.
- females, effects on sexual behavior, males, hamsters 1363.
- neonates, fostering, sheep 628.
- body size**, male selection, fecundity, olfactory stimuli, *Notophthalmus viridescens* 998.
- lboettcheria peregrina**, sugars chemoreceptors, mannitol, stereospecificity, setae 44.
- sweetness receptors response, furanose 392.
- lboombesin**, chemotactic factors, monocytes, tumor cells, man 461.
- lboombyx mori**, physiology, neurons, cerebrum, sex pheromone response 808.
- books**, olfaction, role, social behavior, scent gland, anatomy, *Mammalia* 374.
- Books, (continued)**
- pest control, pheromone traps, *Olea europaea*, *Arthropoda* 1125.
- lbordelella pertusalis**, toxins, chemotaxis inhibition, leukocytes (polymorphonuclear), man 442.
- toxins effects on chemotaxis, leukocytes (neutrophilic), rabbits 71.
- toxins inhibition chemotactic factors production, leukemia cells, man 447.
- toxins, inhibition chemotaxis, cell hybrids, man, mice 120.
- lboaswellia**, oilbunum, essential oils, chemical composition 316.
- lbovine serum albumin**, binding flavor compounds 690.
- lboyden chamber**, chemotaxis, fibronectin, SV40 transformed cells, embryo fibroblasts, man 115.
- chemotaxis, leukocytes (polymorphonuclear), skin 72.
- methodology, chemotaxis, leukocytes 1120.
- methodology comparison, macrophages chemotaxis, lung, man 830.
- lbrachydanio rerio**, sexual reproduction, 17 α -methyltestosterone, inhibition alarm pheromone containing epidermis cells 1002.
- lbrachyteleis arachnoides**, washing, urine, urine odors, indicators, sexual receptivity 622.
- brain**, anterior olfactory nucleus, neurons, morphogenesis, developmental stages, rats 772.
- neurons, electrophysiology mapping, innervation peripheral chemoreceptors, *Lymnaea stagnalis* 1203.
- olfactory system, mapping, tentacles, *Achatina fulica* 42.
- lbrain stem**, locus coeruleus, norepinephrine containing projections, olfactory bulb, rats 1182.
- norepinephrine projections, olfactory bulb (accessory), role, pheromones blocking, pregnancy, mice 211.
- role taste perception, glucose anomers effects on insulin release, man 1477.
- lbranches**, forest residues, attractancy, *Picea abies*, lps typographus 946.
- lbrassica oleracea**, biological control, sex pheromone, *Mamestra brassicae* 985.
- lbreast feeding**, role, olfactory stimuli, tactile stimuli, neonates, rabbits 230.
- lbreast milk**, monocytes chemotactic factors, lymphokines, man 104.
- lbreeding**, alarm behavior, association alarm pheromone, quantitation methodology, *Apis mellifera* 206.
- selection, males, response, sex pheromone, genetic control, *Trogoderma granarium* 1318.
- taste aversion learning ability, rats 1025.
- lbreeding status**, seasonal variation, relationship, olfaction activation vomeronasal organs, *Scoloporus jarrovi* 390.
- lbretonomyces**, role taste, tetrahydroxydienes, wine 1092.
- lbrevicomin**, aggregation pheromone, attractancy, *Pinus ponderosa*, *Dendroctonus brevicomis* 570.
- lbrewing**, sulfur aroma compounds, reviews 678.
- lbric**, cheese flavor, volatiles flavor compounds, *Penicillium caseicola* 300.
- lbruchophagus roddi**, oviposition, *Medicago sativa* volatiles effects on 898.
- lbud**, chemical composition, essential oils, *Ribes nigrum* 288.
- spathulenol, essential oils, *Ribes nigrum* 1411.
- lbuffaloes**, organoleptic evaluation, meat products 1487.
- urine, bait, attractancy, *Glossina pallidipes* 192.
- lbufo**, palatability, *Neacoryphus bicrucis* 286.
- lbulinus rohitia**, chemoreception, amino acids 1346.
- lbulia digitalis**, chemoreception role feeding behavior, foot 1297.
- lbulous pemphigoid**, antigen-antibody complexes, chemotaxis, leukocytes, man 96.
- luprestine**, bitter principle, characterization, isolation, *Stigmodera macularia* 210.
- lbum patients**, leukocytes (neutrophilic), chemotaxis, man 111.
- lburns**, leukocytes (neutrophilic), chemotaxis, N-formyl-methionyl-leucyl-phenylalanine, complement component C3a, complement component C5a, man 439.
- lburying behavior**, defensive behavior, aversion learning, induction, odors olfactory perception, flavor taste perception, rats 647.
- lbutler**, cream, contamination, odors formation, *Flavobacterium* 1472.
- lbuttermilk**, solids, incorporation, milk, oxidation flavor 1090.
- lbutyl acetate**, attractants, efficacy, *Glioscrochilus quadrisignatus* 184.
- semiochemicals, attractancy, traps design, *Glioscrochilus quadrisignatus* 1283.
- l-n-butyl alcohol**, olfactory perception, man 794.
- l-2-butyl-(Z)-7-tetradecanoate**, pheromones, isomers attractancy, *Harrisina americana*, *Acolithus falsarius* 1342.
- llypass**, heart-lung, immunosuppression leukocytes (neutrophilic) chemotaxis, man 108.
- lcadmium**, effects on chemotaxis, *Ciliata* 876.
- lcadra cautella**, sex pheromone, interspecific attractancy 897.
- lcadra figuella**, sex pheromone, interspecific attractancy, *Pyralidae* 897.

- Caenorhabditis elegans**,
chemotaxis, measuring techniques, computer applications 742.
 α -D-mannosidase + neuraminidase effects on chemotaxis 494.
mutants, pheromones effects on development 534.
pheromones effects on larval development 988.
- Caffeine**,
induction, taste aversion, rats 639.
inhibition, olfactory perception 735.
- Calanus cajan**,
kairiromones, host plants, pest resistance, oviposition, *Heliothis armigera* 166.
- Caliciferol**,
dependent calcium-binding protein, localization, periglomerular cells, olfactory bulb, rats 53.
- Calcium**,
flux, chemotaxis, platelet-activating factor, leukocytes (neutrophilic),
GTP-binding protein regulation, man 472.
intracellular levels, endoplasmic reticulum regulation, olfactory nerve axons,
Rana 56.
intracellular levels, extracellular levels,
N-formyl-methionyl-leucyl-phenylalanine activation chemotaxis, leukocytes
(polymorphonuclear) 476.
oviposition inhibition, *Dacus tryoni* 507.
role, sex differentiation, *Rhodospiridium toruloides* 1228.
role, taste organs, Rana 777.
- Calcium channels**,
chemoreceptors, carotid body 404.
- Calcium currents**,
kinetics, neurons, cortex (olfactory), guinea-pigs 9.
- Calcium transport**,
cyclic GMP: chemotaxis, *Phormidium uncinatum*, *Escherichia coli* 492.
- Calcium-binding protein**,
caliciferol dependent, localization, periglomerular cells, olfactory bulb, rats 53.
- Callicebus moloch**,
olfactory bulb, epithelium, receptors cells, ultrastructure, transmission
electron microscopy 1189.
- Calling behavior**,
attractancy, sex pheromone, *Fumibutis fumalis* 504.
circadian rhythms, relationship photoperiod, *Manestra configurata* 1270.
females, regulation, nervous system, *Manduca sexta* 1127.
relationship, sex pheromone, (E)-2-hexenal, *Antheraea polyphemus* 499.
sex pheromone, Arctidae 136.
sex pheromone, conspecific odors effects on, females, *Adoxophyes*, *Homona*
magnanima 519.
sex pheromone, *Holomeleina laeae*, *Holomeleina aurantiaca* 541.
sex pheromone release, *Synanthedon tipuliformis* 515.
sex pheromone, reproduction, *Plusia chalcites* 1368.
synthetic sex pheromone exposure, *Choristoneura fumiferana* 145.
temperature, photoperiod, effects on, *Holomeleina laeae* 921.
- Calliphora erythrocephala**,
antennal sensilla, olfactory organs, ultrastructure, development 38.
- Calliphora vicina**,
sensilla, gustatory stimuli, olfactory stimuli, *Calliphora vicina* 43.
- Callosobruchus chinensis**,
peptide synthesis, antijuvénile hormone 1048.
- Calmodulin**,
distribution, taste buds, cattle 431.
role, sex differentiation, *Rhodospiridium toruloides* 1228.
- Camellia sinensis**,
chemical composition, flavor, volatiles 286.
- Camembert**,
cheese flavor, volatiles flavor compounds, *Penicillium caseicola* 300.
- Camponotus compressus**,
trail pheromone, isolation, identification 927.
- Campylobacter concisus**,
chemotaxis, formic acid, colonization, gingiva 870.
- Cancer antennarius**,
molt-inhibiting hormone characterization 611.
- Cangara cabralea**,
essential oils, chemical composition 1414.
- Canis lupus**,
olfactory stimuli, scent marking behavior 1013.
scent marking behavior, chemical communication 637.
volatiles, urine odors, relationship, sex hormones levels, chemical communication 996.
- Canning**,
effects on beer off flavor 730.
effects on leaves organoleptic properties, *Vigna unguiculata* 366.
- Capsaicin**,
stimulation C-fibers, lung, effects on reflexes activity, dogs 22.
- Capelcum annuum**,
gas chromatography, volatiles 299.
- Captopril**,
side effects, taste perception, man 24.
- Carassius auratus**,
olfactory bulb, odors stimulation effects on discharges 763.
- Carbachol**,
microinjection, septum, effects on taste preferences, rats 270.
- Carbon dioxide**,
attractancy, bait, *Glossina* 198.
attractants, olfactory stimuli, *Glossina morsitans morsitans*, *Glossina pallidipes*
172.
chemoreceptors, self ventilation, lung, chickens 403.
chemoreceptors, sense organs, labial palps, physiology, ultrastructure,
innervation, *Rhodogastria* 1169.
chemotaxis, *Oscillatoria* 488.
flight activity response, *Stomoxys calcitrans* 177.
- Carboxylic acids**,
isolation, chemical composition, *Blattella germanica* 562.
- Carcinoma**,
cervix, monocytes chemotaxis plasma inhibitors, man 411.
chemotactic factors role leukocyte adherence inhibition 833.
chemotherapy effects on monocytes chemotaxis, testes, man 847.
leukocytes responsiveness chemotactic factors, man 415.
ovary, chemotactic factors, regulation, macrophages 410.
- Cardiotonics**,
immunosuppression chemotaxis, leukocytes (neutrophilic) 70.
- Carica candamarcensis pubescens**,
chemical analysis, volatiles, fruits 297.
- Carica papaya**,
fruits flavor 330.
- Carica pentagona**,
volatiles, flavor constituents, fruits 686.
- Carotid body**,
chemoreceptors, calcium channels 404.
chemoreceptors, dopamine effects on activity, rabbits 402.
chemoreceptors, inactivation, effects on renal function, carotid artery, cats 406.
chemoreceptors, pharmacology models 405.
chemoreceptors, regulation ventilation, man 783.
hypoxia effects on cells, morphology, cats 1156.
hypoxia stimulation, dopamine biosynthesis, release, cats 784.
neuropeptide Y fibers identification, adrenergic nerves, rats 1154.
- Carotid sinus**,
chemoreceptors, role sleep respiration rhythms, neonates, rats 23.
- Carpodina niponensis**,
chemical composition, sex pheromone, gas chromatography 533.
pheromone traps, catches, relationship, dispersal 594.
- Carrion**,
attractancy, *Oiceoptoma noveboracense* 159.
- Casein**,
coagulation effects on, milk production, organoleptic evaluation 1111.
- β -Casein**,
C-terminus structure role bitterness taste, cattle 691.
- Castanea sativa**,
extracts, orientation, electroantennograms, *Cydia fagiglandana*, *Cydia splendana*
167.
- Caste determination**,
larvae, inhibition, adults, role, contact pheromones, *Pheidole bicarinata* 613.
- Castration**,
effects on testosterone metabolism, epithelium, olfactory bulb, males, rats 1139.
- Catching methods**,
pheromone traps, synthetic sex pheromone, comparison, efficacy, *Diatraea*
grandiosella 1343.
- Catechin**,
effects on synaptic transmission, cortex (olfactory), rats 758.
- Catecholamines**,
localization, neurons, olfactory bulb, mice 818.
- Cathartes aura**,
olfaction, carion odors 1390.
- Cats**,
morphology, hypoxia effects on cells, carotid body 1156.
predator-prey interactions, chemical communication, *Meniones unguiculatus* 1033.
sucking behavior, nipple localization, olfactory stimuli 225.
territorial behavior, urine odors 236.
- Cattle**,
blood plasma fermentation, effects on organoleptic evaluation, sausages 1479.
calmodulin distribution, taste buds 431.
chemotactic factors effects on leukocytes (neutrophilic) morphology 449.
estrus, mounting pheromones, isolation, vagina mucus 1000.
fibroblasts, chemotactic factors, complement component C5a, inflammation, man 496.
intramammary device role leukocytes (neutrophilic) chemotaxis 856.
leukocytes (neutrophilic) + leukocytes (eosinophilic) chemotaxis, chemotactic
factors, *Ostertagia ostertagi* 468.
males, olfactory perception, detection, estrus 999.
mating behavior, urine odors, chemical stimuli, reproductive status, estrus cycle
1001.
nose, 2-isobutyl-3-methoxyxypazine-binding protein, purification,
characterization 49.
odor pollution control use peat, manure 1430.
organoleptic evaluation, muscles 358.
scanning electron microscopy, papillae, morphology, taste 1198.
Staphylococcus aureus, *Escherichia coli*, leukocytes (neutrophilic), chemotaxis,
mastitis 1221.
C-terminus structure role bitterness taste, β -casein 691.
thymus extracts, chemotaxis, leukocytes (granulocytic), lymphocytes T 103.
urine, bait, attractancy, *Glossina pallidipes* 192.
- Cell membranes**,
olfactory nerve, adenylate cyclase, odors activation, GTP-binding protein 429.
polarization, chemotactic factors, chemotaxis, *Physarum polycephalum* 131.
- Cell surface**,
folic acid receptors, chemotaxis, *Dictyostelium discoideum* 489.
N-formyl-methionyl-leucyl-phenylalanine receptors, methylation, chemotaxis,
monocytes, macrophages 1205.
- Cells**,
electron microscopy, papillae, taste, rabbits 1199.
taste response, potassium benzoate, rats 1150.
- Cembrene-A**,
trail pheromone, bioassays, trail following behavior, recruitment, orientation,
Nasutitermes costalis 178.
- Centrifugation**,
effects on volatiles, fruit juices, *Passiflora edulis* 333.
- Ceratitis capitata**,
additives, effects on attractancy, trimedure 1323.
capture, females, traps, relationship, male attractants use 1335.
feeding behavior, olfactory perception, radiation effects on 170.
integrated control, pheromone traps 1326.
oviposition, chemical stimuli, fruits 1253.
pheromone traps, design, catches 1324.
pheromone traps, efficacy, trimedure 593.
pheromones dissemination, functional morphology, rectum epithelium, pheromone
glands 920.
structure-activity relationships, trimedure, attractancy 600.
- Cerebellum**,
role, olfactory stimuli induction, vertigo, rabbits, man 1134.
- Cerebrospinal fluid**,
chemotactic factors, meningitis, man 416.
- Cerebrum**,
physiology, neurons, sex pheromone response, *Bombix mori* 808.

arvix.

carcinoma, monocytes chemotaxis plasma inhibitors, man 411.

arvus nippon.

wallowing, scent marking behavior 217.

hameosephelia.

pheromones, synergism, octadecadienyl acetates, trapping 1327.

hampagne.

chemical composition, aroma compounds 1058.

hattonella.

algal blooms, olfaction, EEG, olfactory bulb, *Seriola quinqueradiata*, Pagrus major 759.

heddar cheese.

aging effects on chemical composition, high-performance liquid chromatography 1089.

aroma compounds role off flavor, microorganisms 1094.

Aspergillus oryzae proteinase effects on maturation, cheese flavor 1085.

chemical composition, flavor compounds 1070.

food additives, esterase+lipase effects on flavor 1079.

ripening, sodium phosphate, potassium phosphate, effects on cheese flavor 719.

sodium chloride substitution effects on, taste panel evaluation 1113.

heese.

aroma compounds, isolation, biosynthesis, *Lactobacillus helveticus* 673.

chemical composition, taste panel evaluation, Mexican white cheese 1110.

flavor volatiles, gas chromatography 280.

grana cheese, organoleptic evaluation 1480.

methanophilic odors, proteolysis, *Bacillus licheniformis* 727.

production effects on organoleptic evaluation 1118.

Ras cheese effects on organoleptic properties 736.

ripening, cheese flavor, off flavor, peptidase, proteinase, *Hordeum vulgare* 1466.

ripening, triacylglycerol lipase, organoleptic evaluation 1467.

substitutes, flavor, soybeans fermentation, *Streptococcus lactis*, starter

cultures 721.

substitutes, flavor, soybeans fermentation, *Streptococcus lactis*, starter

cultures 1461.

cheese flavor.

age effects on chemical composition 277.

Aspergillus oryzae proteinase effects on maturation Cheddar cheese 1085.

cheese ripening, peptidase, proteinase, *Hordeum vulgare* 1466.

flavor compounds, fruit cheese 284.

production, propionic acid starter cultures, propionic acid bacteria immobilized

cells 327.

ripening, sodium phosphate, potassium phosphate effects on, Cheddar cheese 719.

flavor compounds, *Penicillium caseicola*, Camembert, Brie 300.

helictus.

larvicides, response, parasitoids, scales, Lepidoptera 935.

chemical communication.

aggregation pheromone, *Argas persicus* 1280.

attractancy, in vitro, *Schistosoma* 1350.

attractancy, males fitness, offspring heritability, *Tribolium castaneum* 884.

biochemical analysis, *Schistosoma mansoni* 1352.

Courtship, *Trifurca* 1362.

Digenanea 1349.

disruption, antipheromones, (E,E)-8,10-dodecadien-1-ol acetate, orchards, *Cydia*

pomonella 1330.

evolution, Formicidae 1295.

Nematoda, pheromones, pest control 151.

olfaction signals, bioassays, Mammalia 838.

olfactory perception, behavior, Mammalia, reviews 662.

pheromone traps, attractancy, *Lepersinus varius*, *Hyliogops palliatus*, *Dryocetes*

autographus 144.

pheromones, biochemistry, Insecta 886.

pheromones, estrus regulation, role ovary hormones, mice 995.

pheromones, olfactory perception, Invertebrata 619.

predator-prey interactions, *Meriones unguiculatus*, cats 1033.

recognition, self, conspecifics, chemoreception, *Procambarus clarkii* 618.

scent marking behavior, *Canis lupus* 637.

scent marking behavior, chemical composition, *Saginus fuscicollis* 1007.

Schistosoma, conferences 1500.

sex pheromone, algae, water chemistry, reviews 882.

sex pheromone, attractancy, *Eurytoma amygdali* 1250.

sex pheromone chemical composition variation, population studies, ecological

evaluation, *Agrotis segetum*, Europe 885.

sex pheromone, electroantennograms, attractancy, *Periplaneta americana* 1290.

social behavior, sex differences, *Octodon degus* 633.

Termitidae, reviews 208.

trail pheromone, recruitment, foraging behavior, kin recognition, defense

secretions, *Trachymyrmex unctus* 548.

trail pheromone, trail following behavior, *Leptothorax affinis* 1308.

urine odors, volatiles, relationship, hormones levels, *Mus musculus* 1004.

volatiles, urine odors, relationship, sex hormones levels, *Canis lupus* 996.

workers, relationship evolution, *Acromyrmex landolti* 1286.

Chemical composition.

aging effects on Cheddar cheese, high-performance liquid chromatography 1089.

aroma, chromatography, seeds, *Trigonella foenum graecum* 1400.

aroma compounds, age effects on, wine 1057.

aroma compounds, champagne 1058.

bitterness, *Taraxacum* 1063.

essential oils, *Asarum canadense* 705.

essential oils, buds, *Ribes nigrum* 288.

essential oils, *Cangerana cabralea* 1414.

flavor, *Allium* 1066.

flavor, *Allium* 1067.

flavor compounds, beer 1075.

flavor compounds, Cheddar cheese 1070.

flavor compounds, *Majorana hortensis* monoch 1080.

flavor, organoleptic evaluation, beer 1106.

flavorings, hexobarbital, fruit juices, alcoholic beverages, *Malus* 1409.

4-methoxy 2-methyl 2-mercapto-butane, aroma, *Ribes nigrum* 1402.

odors, *Ongarum* 1399.

organoleptic properties, taste panel evaluation, *Crassostrea gigas*, *Crassostrea*

virginica 1101.

γ radiation effects on volatiles, *Lycopersicon esculentum* 1059.

sex pheromone, attractancy, monitoring, population levels, *Hydracra micacea* 526.

taste panel evaluation, rock sugar 1484.

volatiles, aroma, *Mangifera indica* 1401.

volatiles, cooking, coconut 1055.

Chemical composition, (continued)

volatiles, diets effects on, feces, man 1407.

volatiles, flavor, *Citrus vulgaris* 889.

volatiles, flavor, grapefruit juice 1054.

volatiles, oils, *Juniperus communis* 675.

volatiles, oils, *Piper nigrum* 1062.

volatiles, *Prunus mume* 1052.

volatiles, roasted, chickens 1397.

volatiles, slurries, livestock 1406.

Chemical perception.

cues, recognition, mating behavior, *Belonogaster petiolata* 912.

food organisms palatability, *Dendrobates pumilio*, *Cupienius coccineus* 548.

host plants, oviposition, attractancy, *Allium cepa*, *Allium porrum* 1234.

role, attraction food sources, mating behavior, *Cochlomyia hominivorax* 1296.

role, predatory behavior, *Scincella lateralis* 1031.

Chemical stimuli.

aggregation behavior, ecological evaluation, *Parulius interruptus* 165.

conspecifics, hosts, effects on reproductive behavior, ingestion, *Nematoda* 1263.

feeding behavior, bioassays, *Aplysia* 1274.

hosts, role, host searching behavior, foraging behavior, *Nematoda* 1348.

identification, conspecifics, fitness, reproductive strategy, unisexual

populations, *Ambystoma jeffersonianum* 1384.

monoterpenes, turpentine, paraquat, attractancy, pest attack, *Pinus eliotti*,

Dendroctonus terebrans 966.

odors, attractancy, juveniles, *Stizostedion vitreum vitreum* 1034.

olfactory discrimination, water flow, predatory behavior, *Urosalpinx cinerea* 560.

oviposition, fruits, *Ceratitis capitata* 1253.

recognition, *Nezara viridula* eggs, *Triassolus basalis* 149.

role, recognition, conspecifics, sex, males, *Polistes fuscatus* 205.

role, territorial behavior, *Cichlasoma nigrofasciatum* 233.

structure-activity relationships, sexual reproduction, settling behavior,

metamorphosis, marine environment, Invertebrata 1235.

urine odors, reproductive status, mating behavior, estrus cycle, cattle 1001.

Chemicals.

fruits odors, chemoreception, *Drosophilidae* 174.

perfumes, conferences 749.

Chemiluminescence.

N-formyl-methionyl-leucyl-phenylalanine, oxidation, leukocytes (granulocytic)

436.

peptide synthesis role, leukocytes (polymorphonuclear), man 97.

Poly(L-arginine)+lectins+calcium ionophores, leukocytes (polymorphonuclear),

blood, man 109.

Chemotactants.

amino acids, purines, *Palaeomonetes pugio* 1298.

Chemokinesis.

agarose, leukocytes (polymorphonuclear), children 89.

chemotactic factors, leukocytes (granulocytic), man 100.

morphology, leukocytes 858.

Chemoreception.

amino acids, *Bulinus rohtsi* 1346.

conspecific odors, *Eumeces laticeps*, *Eumeces fasciatus* 1010.

conspecifics, *Salvelinus alpinus* 234.

conspecifics, self recognition, *Procambarus clarkii*, chemical communication 618.

efferent interneurons response, optic nerve, *Oncometis virilis* 1126.

facial nerve innervation, palate, *Fugu pardalis* 377.

feeding behavior, lectins, *Hydra japonica* 1271.

feeding stimuli, *Trichostrogylus colubriformis* 580.

host plants fruits chemicals, regulation, reproduction, *Dacus oleae* 913.

kin recognition, Dufour's gland secretions, *Halticinae* 620.

leg, ovipositor, electrophysiology, oviposition deterrents, *Pieris brassicae* 804.

maturation, reviews, *Schistosoma* 1351.

odors, foraging behavior, *Apis mellifera* 168.

odors, fruit chemicals, *Drosophila melanogaster*, *Drosophila simulans*,

Drosophila immigrans, *Drosophila latitarsata* 174.

oviposition, stimulation, inhibition, fructose, calcium, *Dacus tryoni* 507.

pheromones, *Gammarus palustris* 508.

pollutants effects on, *Pisces* 1036.

populations, recognition, *Oncorhynchus kisutch* 635.

reproductive behavior, site selection, *Salvelinus namaycush* 212.

role feeding behavior, foot, *Bulla digitalis* 1297.

sensilla, leg, bioassays, food preferences, *Chilo partellus* 2.

sex pheromone, electrophysiology, electroantennograms, *Glossina morsitans*

morsitans 755.

structure-activity relationships, lactic acid, amino acids, acetylcholine,

Macrostes glaucalis 378.

trimethylammonium hydrochloride, feeds additives, feeding stimulation,

Macrobrachium rosenbergii 944.

volatiles, host plants, electroantennograms, *Acrolepiopsis assectella* 752.

Chemoreceptors.

almitrine bismesilate effects on, reaction mechanisms 785.

anatomy, Crustacea 1200.

antennal sensilla, pores, ultrastructure, *Yponomeuta vigintipunctatus*, *Yponomeuta*

cagnagellus, *Adoxophyes orana* 421.

calcium channels, carotid body 404.

carbon dioxide, sense organs, labial palps, physiology, ultrastructure,

innervation, *Rhodogastria* 1169.

carotid body, dopamine effects on activity, rabbits 402.

carotid body, inactivation, effects on renal function, cats 406.

carotid body, pharmacology models 405.

carotid body, regulation ventilation, man 783.

carotid sinus, role sleep respiration rhythms, neonates, rats 23.

cells, olfactory bulb, response odors, electrophysiology characterization, dogs

1138.

cells, olfactory nerve, response olfactory stimuli, pigeons 1137.

characterization, affinity labelling, leukocytes (neutrophilic), rabbits 437.

cigarette smoke, rabbits 21.

desensitization, chemical modification, *Escherichia coli* 872.

developmental stages, peripheral nerves, Insecta, reviews 382.

distribution, leukocytes (polymorphonuclear) 855.

distribution, olfactory epithelium, rats 819.

distribution papillae, tongue, taste, gustatory stimuli, *Rana catesbeiana* 1144.

fetuses, infants, man 1155.

fibrinectin receptors fragments, monocytes, man 473.

food, susceptibility, *Diaptorus anser*, *Didinium nasutum* 549.

N-formyl-methionyl-leucyl-phenylalanine, leukocytes (neutrophilic), chemotaxis

83.

Chemoreceptors, (continued)

- leukocytes (neutrophilic), man 107.
 leukocytes (neutrophilic), peritoneum, rabbits 432.
 leukocytes (polymorphonuclear), man, reviews 1204.
 lymphocytes T, acute promyeloid leukemia, man 828.
 maxillary palps, sensilla, ultrastructure, *Drosophila melanogaster* 39.
 methylation, demethylation, thermophilic bacteria 782.
 olfaction, antennae, ATP sensitivity, characterization, *Panulirus argus* 756.
 olfaction, odors, characterization, reviews, man 32.
 olfaction, reviews 417.
 olfactory perception, Vertebrata, comparison, chemotaxis, bacteria 388.
 olfactory system, cells electrophysiology characterization, pheromones, Ips typographus, *Thanasimus formicarius* 376.
 oxygen, *Astacus leucodactylus* 20.
 peripheral, neurons innervation, electrophysiology mapping, brain, *Lymnaea stagnalis* 1203.
 pheromones, structure-activity relationships, antennae, Insecta 994.
 proteins, genes, *Salmonella typhimurium* 135.
 regulation, host searching behavior, hormones, *Aedes aegypti* 550.
 response aliphatic alcohols, trigeminal nerve, rats 769.
 role, food preferences, *Epilachna varivestris* 807.
 self ventilation, carbon dioxide, lung, chickens 403.
 sensilla, labial palps, ultrastructure, *Pisces rapae* 380.
 sensilla, ovipositor, physiology, *Rhagoletis pomonella* 1131.
 stimuli, viscera, interaction, taste stimuli, solitary tract nucleus activity, rats 776.
 structure, *Oreocetes propinquus* 825.
 sugars, mannitol, stereospecificity, setae, *Boettcherisca peregrina* 44.
 synapses, *Limulus polyphemus* 1201.
 ultrastructure, electron microscopy, mouth, *Beroe cucumis* 826.
Chemotactic agents
 dogs serum, chemotaxis larvae *Ancylostoma caninum* 134.
 hyperoxia effects on macrophages, lung, rats 79.
 movements, chemotactic factors, *Chondromyces apiculatus* 867.
Chemotactic defects
 chemotactic factors, lymphocytes T, malignancy, man 413.
 chemotaxis, storage induction, temperature effects on, leukocytes (polymorphonuclear), man 475.
 phagocytes, thymomegaly, children 419.
Chemotactic factors
 aliphatic alcohols effects on, leukocytes (polymorphonuclear), blood, man 859.
 analogs, aggregation, conformational analysis, N.M.R. 434.
 asbestos effects on, macrophages, lung, man 98.
 biosynthesis, leukocytes (mononuclear), activation, *Clostridium tetani* toxins, lymphocytes T chemotaxis, man 474.
 bombesin, monocytes, tumor cells, man 461.
 Bordetella pertussis toxins, leukemia cells production inhibition, man 447.
 cerebellar spinal fluid, meningitis, man 418.
 characterization, leukocytes (mononuclear), heart, *Papio cyncephalus* 466.
 characterization, leukocytes (neutrophilic), eggs, *Schistosoma japonicum* 457.
 characterization, *Taenia taeniiformis* 455.
 chemokinesis, leukocytes (granulocytic), man 100.
 chemotactic agents, movements, *Chondromyces apiculatus* 867.
 chemotactic defects, lymphocytes T, malignancy, man 413.
 chemotaxis assays, macrophages, man 82.
 chemotaxis, man, leukocytes (granulocytic), *Scyliorhinus canicula* 1223.
 complement component C5a, fibroblasts, inflammation, cattle 496.
 complement component C5a receptors, leukocytes (polymorphonuclear), man 444.
 cyclic AMP receptors, *Dictyostelium discoideum* 874.
 effects on chemotaxis, leukocytes (neutrophilic), man 85.
 effects on leukocytes (neutrophilic) morphology, cattle 449.
 females, males chemotaxis, in vitro, *Schistosoma mansoni* 1265.
 fibronectin, plasma, N-formyl-methionyl-leucyl-phenylalanine, leukocytes (neutrophilic) 102.
 N-formyl-methionyl-leucyl-phenylalanine, monocytes, leukocytes (granulocytic) 443.
 gradients, orientation, leukocytes (neutrophilic) 112.
 guanine regulatory protein effects on monocytes response 863.
 identification, *Schistosoma mansoni* 1264.
 inflammatory bowel diseases, complement, chemotaxis, leukocytes (neutrophilic), man 87.
 leukocytes (eosinophilic), chemotaxis, leukocytes (mononuclear), asthma, man 445.
 leukocytes (eosinophilic), purification, characterization, guinea-pigs 467.
 leukocytes (eosinophilic), release, *Strongyloides larvæ* effects on leukocytes (neutrophilic), guinea-pigs 1213.
 leukocytes (neutrophilic), larvae, *Cesphogostomum aculeatum* 848.
 leukocytes (neutrophilic), selenium, nutrient deficiency effects on production, leukocytes (polymorphonuclear), *Oreomys americanus* 448.
 leukocytes (polymorphonuclear), complement component C5a activation, hemodialysis, man 1209.
 leukocytes (polymorphonuclear), macrophages release, stimulation, *Escherichia coli* endotoxins, rats 17.
 leukocytes responsiveness, carcinoma, man 415.
 lymphocytes T, thymocyte-activating factor production, keratinocytes, epidermis 464.
 macrophages biosynthesis, asbestos chronic effects, chemotactic factors, induction, leukocytes (neutrophilic), inflammation, lung, sheep 31.
 migration inhibition, chronic lymphatic leukemia, leukocytes (neutrophilic), migration inhibition activity, man 853.
 monocytes, lymphokines, breast milk, man 104.
 opsonization zymosan, leukocytes (polymorphonuclear), rats 91.
 Ostertagia ostertagi, leukocytes (neutrophilic)+leukocytes (eosinophilic) chemotaxis, cattle 468.
 polarization cell membranes, chemotaxis, *Physarum polycephalum* 131.
 production, biochemical characteristics, lymphocytes T hybridoma, man 471.
 purification, characterization, *Fasciola* 463.
 purification, characterization, macrophages 866.
 release, lung, asbestos inhalation, macrophages, rats 440.
 release, ovary carcinoma, regulation macrophages, man 410.
 role leukocyte adherence inhibition, carcinoma 833.
 Staphylococcus aureus effects on monocytes chemotaxis, man 840.
Chemotactic response
 astrocytes, cortex, platelet-derived growth factor, rats 132.
 Octopus vulgaris 873.
 pollutants effects on, macrophages, kidney, *Pisces* 1212.

Chemotaxis

- actin, cytoskeleton, *Dictyostelium discoideum* 118.
 agarose, leukocytes (polymorphonuclear), children 89.
 allopurinol effects on leukocytes (neutrophilic), blood, man 852.
 amino acids, thermophilic bacteria 129.
 amoxicillin+doxycycline effects on leukocytes (granulocytic), man, rabbits 446.
 anemotaxis, flight activity, host location, *Glossina pallidipes*, *Glossina morsitans* 571.
 antineoplastic drugs, antibacterial agents, antifungal agents, glucocorticoids, cardiotonics, sulfonamides immunosuppression, leukocytes (neutrophilic) 70.
 assays, chambers, density gradients isolation, monocytes, man 477.
 assays, chemotactic factors, macrophages, man 82.
 assays, filter paper, monocytes 844.
 assays, monocytes, leukocytes (neutrophilic), man 850.
 ATP role, *Salmonella typhimurium* 126.
 Bacillus anthracis toxins effects on leukocytes (polymorphonuclear), man 438.
 bacteria, comparison, olfactory perception, chemoreceptors, Vertebrata 388.
 behavior, biochemical characteristics, bacteria 877.
 benoxaprofen effects on monocytes, psoriasis, man 835.
 benzodiazepine receptors, monocytes, man 450.
 binding proteins, tertiary structure, stereospecificity, periplasmic space, gram-negative bacteria 868.
 Bordetella pertussis toxins effects on, leukocytes (neutrophilic), rabbits 71.
 Bordetella pertussis toxins, inhibition, cell hybrids, man, mice 120.
 Boyden chamber methodology, leukocytes 1120.
 cadmium, copper effects on, *Cilata* 876.
 calcium transport, cyclic GMP, *Phormidium uncinatum*, *Escherichia coli* 492.
 Campylobacter concisus, formic acid, colonization, gingiva 870.
 carbon dioxide, oxygen, bicarbonate, *Oscillatoria* 488.
 cell surface, N-formyl-methionyl-leucyl-phenylalanine receptors, methylation, monocytes, macrophages 1205.
 chemoreceptors, leukocytes (neutrophilic), man 107.
 chemotactic defects, storage induction, temperature effects on, leukocytes (polymorphonuclear), man 475.
 chemotactic factors effects on, leukocytes (neutrophilic), man 85.
 chemotactic factors, leukocytes (eosinophilic), leukocytes (mononuclear), asthma, man 445.
 chemotactic factors, man, leukocytes (granulocytic), *Scyliorhinus canicula* 1223.
 chemotherapy effects on monocytes, testes carcinoma, man 847.
 chlorpromazine+clonitoxol effects on, leukocytes (neutrophilic), man 843.
 cigarette smoke effects on, leukocytes (neutrophilic), man 842.
 colchicine, vinblastine, nocodazole effects on leukocytes (polymorphonuclear), man 96.
 cold storage effects on, leukocytes (neutrophilic), man 459.
 Curvularia lunata, *Fusarium solani*, *Macrophomina phaseolina* effects on, Actinoplanes missouriensis 875.
 cytochalasin A effects on, leukocytes (neutrophilic), rabbits 92.
 cytoskeleton, actin, *Dictyostelium discoideum* 118.
 defects, monocytes, immunodeficiency, immunoglobulin A, man 412.
 dermatitis herpetiformis, leukocytes (polymorphonuclear), man 75.
 development, cells, *Dictyostelium discoideum* 1229.
 diclofenac sodium effects on leukocytes (neutrophilic), man 854.
 endotoxins effects on monocytes, eye, rabbits 860.
Escherichia coli, infection, α -hemolysin, leukocytes (neutrophilic) 1219.
Escherichia coli, receptors mutants, characterization, phenotypes, tar gene 1230.
 etretinate effects on leukocytes (neutrophilic), psoriasis, leukocytes (neutrophilic) 86.
 factors effects on vascular system endothelium, placenta, man 125.
 fibroblasts comparison transformed cells, epidermis, man 864.
 fibroblasts, mucopolysaccharidosis, man 93.
 fibroblasts, wound healing, tumor cells 469.
 fibronectin fragments, fibroblasts transformed cells, SV40 481.
 fibronectin, SV40 transformed cells embryo fibroblasts, Boyden chamber, man 115.
 folic acid receptors, cell surface, *Dictyostelium discoideum* 489.
 N-formyl-methionyl-leucyl-phenylalanine activation, calcium, intracellular levels, extracellular levels, leukocytes (polymorphonuclear) 476.
 N-formyl-methionyl-leucyl-phenylalanine induction leukocytes (polymorphonuclear), inhibition, wheat germ agglutinins characterization 453.
 genes, nucleotide sequence, proteins, amino acid sequence predictions, *Escherichia coli* 480.
 glucocorticoids effects on leukocytes, dogs 452.
 Glycine max seeds exudates, *Pseudomonas* 869.
 GTP+GDP effects on cyclic AMP receptors, *Dictyostelium discoideum* 490.
 heart+lung bypass immunosuppression leukocytes (neutrophilic), man 108.
 hydroxyalkenals effects on, leukocytes (neutrophilic), rats 73.
 inflammation effects on, leukocytes (neutrophilic) 857.
 inflammatory bowel diseases, complement, complement, leukocytes (neutrophilic), man 87.
 inhibition, anthraxis, leukocytes (polymorphonuclear) 465.
 inhibition, Bordetella pertussis toxins, leukocytes (polymorphonuclear), man 442.
 inhibition immunoglobulins, leukocytes (polymorphonuclear), monocytes, man 81.
 inhibition, leukocytes (neutrophilic), venom, *Loxosceles reclusa* 1210.
 inhibition, platelet factor 4 role, leukocytes (neutrophilic), man 841.
 kinetics, bacteria 491.
 large granular lymphocytes, man 460.
 larvae, *Ancylostoma caninum*, dogs serum chemotactic agents 134.
 leukocytes, bulous pemphigoid, epidermolysis bullosa, man 96.
 leukocytes, effects on, inflammation sites, man 1218.
 leukocytes (eosinophilic), role *Taenia taeniiformis* infection, rats 1215.
 leukocytes (granulocytic), antigen-antibody complexes, mucocutaneous lymph node syndrome, man 409.
 leukocytes (granulocytic), mucocutaneous lymph node syndrome, children, man 10.
 leukocytes (neutrophilic), blood, *Macaca mulatta* 846.
 leukocytes (neutrophilic), burn patients serum, man 111.
 leukocytes (neutrophilic), Duchenne's muscular dystrophy, man 1216.
 leukocytes (neutrophilic), hydrogen peroxide induction, complement component C5 serum, man 462.
 leukocytes (neutrophilic), inflammation, hydroxyapatite crystals, arthritis, hemodialysis, man 30.
 leukocytes (neutrophilic) inhibition, pertussis toxins role, peritoneum, rabbits 845.
 leukocytes (neutrophilic), L-formyl-methionyl leucyl-phenylalanine, computers assays, man 861.
 leukocytes (neutrophilic), leukocytes (eosinophilic), *Schistosoma japonicum* 88.
 leukocytes (neutrophilic), levamisole immunostimulation, man 465.
 leukocytes (neutrophilic), N-formyl-methionyl-leucyl-phenylalanine,

Chemotaxis, (continued)

- chemoreceptors 83
leukocytes (neutrophilic), N-formyl-methionyl-leucyl-phenylalanine, complement component C3a, complement component C5a, N-formyl-methionyl-leucyl-phenylalanine burns, man 439.
leukocytes (neutrophilic), N-formyl-methionyl-phenylalanine receptors, rats 77.
leukocytes (neutrophilic) response, collagen fragments, blood, man 832.
leukocytes (neutrophilic), role intramammary device, cattle 856.
leukocytes (neutrophilic), *Staphylococcus aureus*, *Escherichia coli*, mastitis, cattle 1221.
leukocytes (neutrophilic) leukocytes (eosinophilic), cattle, chemotactic factors, *Ostertagia ostertagi* 468.
leukocytes, *Pleuronectes platessa*, inflammation, mediators 1222.
leukocytes (polymorphonuclear), antiinflammatory agents effects on, rats 834.
leukocytes (polymorphonuclear), chemotactic defects induction, temperature effects on, man 475.
leukocytes (polymorphonuclear), gingiva inflammatory diseases, man 110.
leukocytes (polymorphonuclear), Hodgkin's disease 433.
leukocytes (polymorphonuclear), lipids, leukotrienes 105.
leukocytes (polymorphonuclear), peripheral blood, blood uterus, horses 78.
leukocytes (polymorphonuclear), skin, Boyden chamber 72.
leukocytes (polymorphonuclear), skin window, tuberculosis, pneumonia, diseases 1168.
leukocytes (polymorphonuclear), yeasts 80.
leukocytes, zinc nutrient deficiency immunosuppression, man 478.
leukotriene B₄ effects on, fibroblasts 124.
lipogenesis products, leukocytes, psoriasis, man 69.
location, monocytes comparison macrophages 849.
lymphocytes B, gut lymphoid tissue, immunoglobulin A, milk, mice 836.
lymphocytes, synovial fluid interleukin 1, role, rheumatoid arthritis, man 796.
lymphocytes T, leukocytes (mononuclear), chemotactic factors biosynthesis, activation, *Clostridium tetani* toxoids, man 474.
macrophages, asbestos inhalation, lung, rats 1207.
macrophages, Boyden chamber methodology comparison, lung, man 830.
macrophages, gene regulation, mice 456.
macrophages, N-formyl-methionyl-leucyl-phenylalanine, mice 133.
macrophages, nephritis, guinea-pigs 862.
macrophages, peritoneal exudate cells, dental manipulation, rats 1208.
males, in vitro, females chemotactic factors, *Schistosoma mansoni* 1265.
maltose, *Escherichia coli* 484.
maltose, transduction, *Salmonella typhimurium* 482.
 α -D-mannoside + neuraminidase effects on, *Caenorhabditis elegans*, *Panagrellus redivivus* 494.
measuring techniques, computer applications, *Caenorhabditis elegans* 742.
mechanisms, bacteria 126.
methionine, *Achlya ambisexualis* 123.
modulation, role haptoglobin, macrophages 831.
monensin effects on N-formyl-methionyl-leucyl-phenylalanine role, leukocytes (granulocytic), man 95.
monocytes, acquired immune deficiency syndrome, lymphadenopathy, drug abuse 113.
monocytes, dermatomyositis, man 114.
monocytes, inhibition, role lipoprotein (low-density), man 829.
monocytes, plasma inhibitors, cervix carcinoma, man 411.
monocytes, role elastin fragments, man 1214.
morphology, leukocytes 858.
motility, assays, macrophages, lung 74.
nomenclature, lymphoid cells 479.
oxygen, *Tetrahymena* 490.
peptatin effects on, role receptors, N-formyl-methionyl-leucyl-phenylalanine, leukocytes (neutrophilic), man 435.
peptides, N-formyl-methionyl-leucyl-phenylalanine, complement component C5a effects on leukocytes (polymorphonuclear) adherence endothelial cells, man 837.
phorbol 12-myristate 13-acetate induction, polymyxin B effects on leukocytes (neutrophilic), rabbits 851.
platelet-activating factor, leukocytes (neutrophilic), calcium flux, GTP-binding protein regulation, man 472.
polarization cell membranes, chemotactic factors, *Physarum polycephalum* 131.
polarization, cell membranes glycoproteins role, monocytes 99.
pollutants effects on, macrophages, *Plasmodium falciparum* 1211.
N-propionyl-L-glutaryl-L-ornithine-5-tactam ethyl ester, *Polysphondylium violaceum* 122.
proteins, *Tetrahymena thermophila* 117.
psoriasis, leukocytes (mononuclear), man 78.
regulators, methyl esterase, *Escherichia coli* 127.
relationship, acin role, *Dictyostelium discoideum* 121.
respiratory distress syndrome, leukocytes (neutrophilic), lavage fluids, man 67.
response maltose, *Escherichia coli* mutants 130.
riboflavin effects on, *Polytomella magna* 119.
role, cyclic AMP, cyclic GMP, *Escherichia coli*, *Salmonella typhimurium* 1233.
role cyclic AMP receptors, *Dictyostelium discoideum* 1225.
role cyclic AMP stimulation myosin phosphorylation, *Dictyostelium* 871.
role cyclic GMP regulation, *Escherichia coli* 486.
role peptide synthesis, chemiluminescence, leukocytes (polymorphonuclear), man 97.
saffron effects on, *Polytomella magna* 1232.
Schistosoma mansoni effects on, leukocytes (eosinophilic), mice 865.
seaweed, *Arbacia punctulata* 949.
sensory deficiency role, leukocytes (polymorphonuclear), goats 838.
serum pregnancy effects on, leukocytes, man 84.
sexual behavior, photography, in vitro, *Schistosoma mansoni* 1266.
Staphylococcus aureus chemotactic factors effects on monocytes, man 840.
storage effects on, leukocytes (neutrophilic), man 454.
swarming behavior, hypothesis, mathematical models, *Chondromyces apiculatus* 1224.
373 cells, induction, platelet-derived growth factor, cloning, gene expression, genes, *Saccharomyces cerevisiae*, man 495.
ticlopidine effects on leukocytes (neutrophilic), rats 441.
tuftsin analogs peptide synthesis effects on, leukocytes (polymorphonuclear) 451.
tumor cells, mammary gland, rats 106.
wheat germ agglutinin inhibition N-formyl-methionyl-leucyl-phenylalanine induction leukocytes (polymorphonuclear), man 458.
zinc effects on, leukocytes (granulocytic), aging 90.
zoospores, *Phytophthora cinnamomi*, disease resistance, susceptibility, roots exudates, glutamic acid, arginine, *Vitis vinifera* 1231.

Chemotherapy,

effects on monocytes chemotaxis, testes carcinoma, man 847.

Cherries,

γ radiation effects on, taste panel evaluation 346.

Chickens,

chemoreceptors, self ventilation, carbon dioxide, lung 403.
roasted, chemical composition, volatiles 1397.
robenidine effects on, taste panel evaluation 731.

Children,

antimicrobial agents, drugs, flavorings 747.
chemotaxis, leukocytes (granulocytic), mucocutaneous lymph node syndrome 101.
leukocytes (polymorphonuclear), agarose, chemotaxis, chemokinesis 89.
olfaction, visual stimuli effects on, man 1166.
thymomegaly, chemotactic defects, phagocytes 419.

Chilo partellus,

food preferences, bioassays, leg sensilla chemoreception 2.

China, People's Rep.,

perfumes production 748.

Chirality,

bitterness, structure-activity relationships, 2,5-piperazinedione 307.
enantiomers, (R)-1-methyl-(E)-2-butenyl hydroxyacetate, (2R,3S)-2-hydroxy-3-methyl-(E)-4-hexenoic acid, pheromones synthesis 1049.
pheromones, *Ips pini*, *Apis mellifera*, *Cryptolestes ferrugineus* 524.
sex pheromone, *Creatonotus transiens*, *Creatonotus gangis* 891.
structure-activity relationships, sweetness, amino acids 308.
synthesis, pheromones, *Insecta* 273.

Chiroptera,

olfaction, role, social behavior, scent gland, anatomy 246.

Chlorisondamine,

intracerebroventricular administration, inhibition conditioned response taste aversion, nicotine induction, rats 1148.

Chlorpromazine,

effects on leukocytes (neutrophilic) chemotaxis, man 843.

Choline acetyltransferase,

activity, correlation muscarinic acetylcholine receptors binding, developmental stages, olfactory bulb, rats 426.

Cholinergic nerves,

innervation, olfactory bulb development, rats 1177.

Chondromyces apiculatus,

swarming behavior, chemotaxis, hypothesis, mathematical models 1224.

chemotactic agents, movements, chemotactic factors 867.

Chorda tympani,

nerves, heavy metals inhibition, taste perception, mice 18.
nerves, innervation, lungform papillae, tongue, hamsters 66.
nerves, responsiveness taste stimuli, gymnic acid effects on, *Pan troglodytes* 17.

Chorda tympani nerve,

electrical stimulation, induction taste response, characterization, rats 396.

Choristoneura fumiferana,

antifeedants, pungenin, synthesis, efficacy 1041.

calling behavior, synthetic sex pheromone exposure 145.
kairomones, effects on parasitism, *Trichogramma minutum*, USA, Maine 1316.
mating behavior, disruption, sex pheromone, pest control 1339.
pheromone traps, sex pheromone, efficacy, monitoring, population density, pests 1334.
pheromone traps, sex pheromone, factors affecting catches 1341.
pheromones, metabolism, aldehyde dehydrogenase, cuticle 754.
population levels, sampling, pheromone traps 559.
sex pheromone, -analogs, effects on flight activity 890.
sex pheromone, biosynthesis, stereospecificity 888.

Choristoneura lafayana,

pheromone traps, sex pheromone, monitoring, flight activity, Italy, Emilia-Romagna 981.

Choristoneura murinana,

population dynamics, dispersal, pheromone traps, France 963.

Choristoneura occidentalis,

attractancy, pheromone traps 566.

pheromone traps, attractancy, pesticides effects on 188.

Chromatography,

aroma, chemical composition, seeds, *Trigonella foenum graecum* 1400.
essential oils, *Hyssopus officinalis* 1415.
sex pheromone chemical composition, ovipositor, *Lepidoptera* 924.
wastewater treatment, odor pollution 1455.

Chronic lymphatic leukemia,

leukocytes (neutrophilic) + migration inhibition activity, chemotactic factors, inhibition, man 853.

Chrysomelidae,

feeding stimulants, luteolin-7-glucoside, isolation, *Salix gracilistyla* 160.

Cichlasoma nigrofasciatum,

chemical stimuli, role, territorial behavior 233.

Cicthorus inbyus,

comparison *Taraxacum*, bitterness extracts, taste panel evaluation 1104.

Cigarette smoke,

chemoreceptors, rabbits 21.

effects on leukocytes (neutrophilic) chemotaxis, man 842.

Cigarette smoking,

taste perception, surveys, man 1497.

Cigarettes,

chemical composition volatiles comparison, tobacco 680.

odors, volatiles 679.

Cilix alacuta,

sex pheromone, (Z)-11-tetradecenal, (E)-11-tetradecenal 512.

Cilix glaucata,

sex pheromone, attractancy, identification 148.

Circadian rhythms,

calling behavior, relationship photoperiod, *Maestroma configurata* 1270.

Circumvallate papillae,

taste buds, development, substance P neurons, ultrastructure, rats 62.

Cis-vaccenol,

role, courtship inhibition, *Drosophila melanogaster* 1246.

Cis-vaccenyl acetate,

association, inhibition courtship, pheromones, *Drosophila melanogaster* 879.

role, courtship inhibition, *Drosophila melanogaster* 1246.

Citric acid,

effects on taste irritation, man 793.

Citrus vulgaris,

volatiles chemical composition, flavor 689.

- Citrus**,
fruit juices, flavor debittering, nomilin acetyl-lyase activity, *Corynebacterium fascians* 323.
fruit juices, food processing effects on 331.
fruits, γ radiation effects on organoleptic evaluation 351.
- Citrus aurantifolia**,
essential oils comparison *Citrus latifolia* 696.
- Citrus latifolia**,
essential oils comparison *Citrus aurantifolia* 696.
- Citrus natsudaidai**,
plant extracts, bioassays, oviposition stimulants, *Papilio protenor* 1256.
- Citrus paradisi**,
volatiles, chemical composition, flavor 1054.
- Citrus unshiu**,
essential oils 1416.
- Cladostephus**,
sex pheromone, hydrocarbons 1255.
- Clepeula rufinana**,
sex pheromone, attractancy, identification 148.
- Clerodane diterpenoids**,
antifeedants, plant extracts, *Ajuga*, *Spodoptera littoralis* 563.
- Clethrionomys**,
social organization, correlation, odors, comparison, *Microtus*, *Apodemus* 235.
- Cloning**,
gene expression, platelet-derived growth factor genes, *Saccharomyces cerevisiae*, induction, chemotaxis, 3T3 cells, man 495.
- Clophenithiol**,
effects on leukocytes (neutrophilic) chemotaxis, man 843.
- Clostridium botulinum**,
inoculation, odors, hard-boiled eggs 725.
- Clostridium tetani**,
toxoids, activation, leukocytes (mononuclear), biosynthesis, chemotactic factors, lymphocytes T chemotaxis, man 474.
- Clupea**,
fishery products, salts preservation, nitrate effects on odors 328.
fishery products, salts preservation, nitrate effects on organoleptic evaluation 329.
- Clypea ambigua**,
biological control, pheromones 979.
- Coats**,
surfaces, *Antheraea polyphemus*, sensory neurons+olfaction sensilla, *Antheraea polyphemus* 422.
- Coccinellidae**,
olfactometers, equipment, methodology 741.
- Coccyzus erythrophthalmus**,
phagostimulants, plant extracts, *Phoenix dactylifera* 930.
- Cochliomyia hominivorax**,
copulation, mediation, sex pheromone 1259.
- chemical perception, role, attraction food sources, mating behavior 1296.
- Cochylia hospes**,
sex pheromone, chemical composition, use pheromone traps 1337.
- Cocoa beans**,
characterization, off flavor 1474.
fermentation, acidic pH+proteolysis effects on flavor 716.
- Coconut**,
cream effects on tofu, organoleptic evaluation 349.
off flavor, desiccation, chemical composition 336.
- Cocos nucifera**,
cooking, volatiles chemical composition 1055.
fruits, desiccation, off flavor, chemical composition 336.
- Codlemone**,
sex pheromone, solvents effects on, *Cydia pomonella* 154.
- Coffee**,
aroma, organoleptic evaluation 353.
- Colchicine**,
vinblastine, nocodazole effects on leukocytes (polymorphonuclear) chemotaxis, motility, man 94.
- Cold storage**,
effects on aggregation+chemotaxis, leukocytes (neutrophilic), man 459.
spoilage, organoleptic properties, food 1464.
- Coleophora laricella**,
dispersal, detection, pheromone traps, catches 595.
pheromone traps, monitoring, flight activity 573.
- Coleophora versatella**,
sex pheromone, attractancy, identification 148.
- Colitis**,
N-formyl-methionyl-leucyl-phenylalanine + N-formyl-norleucyl-leucyl-phenylalanine role, leukocytes (neutrophilic), rats, mice 1220.
- Collagen**,
fragments, chemotactic leukocytes (neutrophilic) response, blood, man 832.
- Colonial characteristics**,
odors, *Escherichia coli*, urine, identification 1121.
- Colonization**,
gingiva, *Campylobacter concisus*, chemotaxis, formic acid 870.
host selection, role semiochemicals, monoterpene hydrocarbons, *Pinus sylvestris*, *Tomicus piniperda*, Germany, Fed. Rep., Hanheim 1279.
- Color**,
food additives effects on flavor+safety 740.
- Comperiella**,
hosts recognition, host selection, kairomones, *Diaspididae* extracts 993.
- Complement**,
inflammatory bowel diseases, chemotactic factors, leukocytes (neutrophilic), man 87.
- Complement component C3a**,
chemotaxis, leukocytes (neutrophilic), burns, man 439.
- Complement component C5a**,
activation, leukocytes (polymorphonuclear), chemotactic factors, hemodialysis, man 1209.
chemotaxis, leukocytes (neutrophilic), burns, man 439.
effects on leukocytes (polymorphonuclear) adherence endothelium, chemotaxis peptides, man 837.
hydrogen peroxide induction, chemotaxis, leukocytes (neutrophilic), serum, man 462.
man, chemotactic factors, fibroblasts, inflammation, cattle 496.
- Complement component C5a receptors**,
chemotactic factors, leukocytes (polymorphonuclear), man 444.
- Computer applications**,
chemotaxis, measuring techniques, *Caenorhabditis elegans* 742.
- Computer programs**,
taste panel evaluation 1488.
- Computers**,
analysis, aging, wine flavor 282.
assays, L-formyl-methionyl-leucyl-phenylalanine, leukocytes (neutrophilic) chemotaxis, man 861.
- Conditioned inhibition**,
taste aversion learning, rats 1021.
- Conditioned response**,
odors stimuli, correlation EEG activity, olfactory bulb, rabbits 1142.
taste aversion, ethanol induction, amiloride inhibition, mechanisms, rats 1014.
taste aversion learning, acetaldehyde interaction morphine, effects on, rats 261.
taste aversion, lithium induction, brain mediation, rats 644.
taste aversion, nicotine induction, chlorisondamine intracerebroventricular administration, inhibition, rats 1148.
- Conditioning**,
place+taste preferences, reinforcing properties, opiates receptors agonists, rats 253.
- Confectionary products**,
sweeteners, sucrose, food additives 1419.
- Conferences**,
chemical communication, *Schistosoma* 1500.
flavor compounds, extracts, perfumes 750.
odor pollution, deodorization, slurries, sludges, livestock 1499.
perfumes, chemicals 749.
pest control, pheromones, tropical environment, insects 1123.
pest control, use, sex pheromone, insecta 375.
pheromone traps, pest control, Tephritidae 1498.
pheromones, biochemistry 1124.
- Conogethes punctiferalis**,
biopsies, systematics, electroantennograms, n-alkyls 1042.
- Conopomorpha cramerella**,
sex pheromone, chemical analysis 544.
- Conotrachelus nenuphar**,
antennal sensilla, ultrastructure, innervation 802.
- Conspecific odors**,
association, reinforcement, paper flooring in alleyway, rats 1377.
bioassays, scent marking behavior, *Tupia belangeri* 636.
chemoreception, *Eumeces fasciatus*, *Eumeces latiscapae* 1010.
control, maze learning, role, Harrierian gland, rats 1376.
cuticle hydrocarbons, role, kin recognition, *Solenopsis invicta* 1347.
detection, social rank, males, gerbils 263.
effects on, calling behavior, females, *Adoxophyes*, *Homona magnanima* 519.
olfactory discrimination, effects on trapping, live capture, *Apodemus sylvaticus* 1006.
orientation, electroantennograms, *Diadromus pulchellus*, *Diadromus collaris* 1306.
relationship, courtship, *Gromphadorhina portentosa* 517.
response, early experience, social environment, effects on, mice 240.
scent marking behavior response, *Tatera indica* 1012.
social environment, anus glands atrophy, *Microtus agrestis* 1190.
stress, activation, defensive behavior, rats 1367.
- Conspicuous**,
chemoreception, *Salvelinus alpinus* 234.
identification, chemical stimuli, reproductive strategy, unisexual populations, fitness, *Ambystoma jeffersonianum* 1384.
- Contarinia pial**,
sex pheromone, females 505.
- Cooking**,
conditions effects on pork volatiles 289.
conditions, organoleptic evaluation, food 369.
methodology effects on eggs, organoleptic evaluation 739.
off flavor, pork 337.
- Copper**,
effects on chemotaxis, *Ciliata* 876.
- Copulation**,
induction, pheromones, large hermaphroditic duct homogenates, *Aplysia fasciata* 150.
mediation, sex pheromone, *Cochliomyia hominivorax* 1259.
- Cortex**,
astrocytes, chemotactic response, platelet-derived growth factor, rats 132.
Cortex (anterior insular gustatory),
lesions, effects on taste discrimination, rats 19.
- Cortex (entorhinal)**,
neurons containing γ -aminobutyric acid, olfactory bulb, afferent projections, anatomy, immunoelectron microscopy, rats 60.
- Cortex (frontal opercular)**,
unit activity, taste stimuli, *Macaca fascicularis* 1146.
- Cortex (gustatory)**,
organization, response, stimuli, rats 1193.
thalamus projections, rats 1194.
- Cortex (insular)**,
role, morphine induction, taste aversion learning, rats 642.
- Cortex (olfactory)**,
adenosine A1 receptors, mediation, adenosine inhibition, rats 15.
catechol effects on synaptic transmission, rats 758.
excitatory amino acids, induction desensitization response, characterization, rats 757.
glutamic acid, aspartic acid desensitization, rats 1180.
neurons, calcium currents, kinetics, guinea-pigs 9.
neurons, morphogenesis, developmental stages, rats 771.
olfactory bulb ablation effects on organization, recovery of function, development, rats 61.
olfactory bulb ablation, reduction, cytochrome c oxidase activity, rabbits 58.
- Cortex (prefrontal)**,
neurons, olfactory discrimination, characterization, rabbits 7.
- Corvus corax**,
olfactory perception efficacy 651.
- Corynebacterium fascians**,
nomilin acetyl-lyase activity, flavor debittering, *Citrus* fruit juices 323.
- Cosmia trepazina**,
sex pheromone, (Z)-11-tetradecenal, (E)-11-tetradecenal 512.

- Cosmopterix gemmiferella**,
synthetic attractants, 9,11-dodecadienyl alcohols, 9,11-dodecadienyl acetates, 9,11-dodecadienyl aldehydes 665.
- Cotelastra zelandica**,
antifeedants, structure-activity relationships, isoflavonoids 569.
- Cotesia flavipes**,
host searching behavior, stimuli, Diatraea saccharalis 567.
- Courtship**,
chemical communication, Triturus 1362.
inhibition, association, cis-vaccenyl acetate, pheromones, Drosophila melanogaster 879.
inhibition, role cis-vaccenyl acetate, cis-vaccenol, esterase 6, Drosophila melanogaster 1246.
mating behavior, sex pheromone, Dacus cucurbitae 503.
relationship, olfactory stimuli, differentiation, conspecific odors, Gomphadorina portoricensis 517.
role, olfaction, sex pheromone, mutants, Drosophila melanogaster 1268.
role, pheromones detection, males, Phidippus johnsoni 1254.
sex pheromone, males, effects on, Toxotrypana curvicauda 530.
- Crassostrea gigas**,
chemical composition, organoleptic properties, taste panel evaluation 1101.
- Crassostrea virginica**,
chemical composition, organoleptic properties, taste panel evaluation 1101.
- Cream**,
butter, contamination, odors formation, Flavobacterium 1472.
coconut, effects on tofu, organoleptic evaluation 349.
heat treatments effects on, organoleptic properties 370.
- Cratiline**,
role, Rangifer tardus meat urine taints, off flavor 726.
- Cratichneumon gangli**,
scent gland, regulation, pheromones, biosynthesis, association, food intake, pyrrolizidine alkaloids 509.
sex pheromone, chirality 891.
- Cratichneumon transiens**,
scent gland, regulation, pheromones, biosynthesis, association, food intake, pyrrolizidine alkaloids 509.
sex pheromone, chirality 891.
- Crops**,
plant breeding, biosynthesis, antifeedants, pheromones, pest control, insects 943.
- Crotalus viridis**,
olfactory stimuli, role, predatory behavior 652.
- Crustacea**,
chemoreceptors, anatomy 1200.
zooplankton, food preferences, food intake, taste preferences 947.
- Cryptolestes ferrugineus**,
aggregation pheromone, femulactone, synthesis 1045.
aggregation pheromone production, methoprene stimulation, use, pest control, stored products 606.
chirality, pheromones 524.
pheromone traps, monitoring, population levels, grain 609.
- Cryptophlebia batrachopa**,
population levels, pests, monitoring, methodology 583.
- Cryptophlebia leucotarsa**,
population levels, pests, monitoring, methodology 583.
- Cucumis sativus**,
sewage sludges effects on flavor 332.
- Cucurbita maxima**,
volatiles, attractants, chemical composition, Diabrotica undecimpunctata howardi, Diabrotica virgifera virgifera, Acalymma vittatum 940.
- Culex pipiens fatigans**,
aggregation pheromone constituents synthesis 1039.
- Culex quinquefasciatus**,
aggregation pheromone, orientation, oviposition, erythro-6-acetoxy-5-hexadecanolic 156.
- Cunninghamella blakesleana**,
hydroxylation, 2,6-lutidine, aroma compounds 302.
- Cuplennius coccineus**,
palatability, food organisms, chemical perception, Dendrobates pumilio 548.
- Curd**,
fermentation, organoleptic evaluation, dilution, dairy starters 709.
- Cured products**,
sodium chloride, sucrose effects on, organoleptic evaluation, pork 364.
- Curing**,
off flavor, pork 337.
- Curvularia geniculata**,
hydroxylation, 2,6-lutidine, aroma compounds 302.
- Curvularia lunata**,
effects on zoocores chemotaxis, Actinoplanes missouriensis 875.
hydroxylation, 2,6-lutidine, aroma compounds 302.
- Cuticle**,
hydrocarbons, conspecific odors, role, kin recognition, Solenopsis invicta 1347.
pheromones metabolism, aldehyde dehydrogenase, Choristoneura fumiferana 754.
- Cyclic AMP**,
colchicine, vinblastine, nocodazole effects on leukocytes (polymorphonuclear), man 94.
myosin phosphorylation stimulation, role chemotaxis, Dictyostelium 871.
role chemotaxis, Escherichia coli, Salmonella typhimurium 1233.
- Cyclic AMP receptors**,
chemotactic factors, Dictyostelium discoideum 874.
GTP + GDP effects on chemotaxis, Dictyostelium discoideum 490.
role chemotaxis, adenylate cyclase activation, cyclic GMP accumulation, Dictyostelium discoideum 1225.
- Cyclic GMP**,
accumulation, role cyclic AMP receptors, Dictyostelium discoideum 1225.
calcium transport, chemotaxis, Phormidium uncinatum, Escherichia coli 492.
role, chemotaxis, Escherichia coli, Salmonella typhimurium 1233.
role chemotaxis regulation, Escherichia coli 486.
- β -Cyclodextrin**,
use encapsulation, storage 1496.
- Cydia agglutinana**,
orientation, Castanea sativa extracts, electroantennograms 167.
- Cydia pomonella**,
chemical analysis, sex pheromone 498.
chemical communication, disruption, antipheromones, (E,E)-8,10-dodecadien-1-ol acetate 1330.
- Cydia pomonella**, (continued)
environmental conditions effects on pheromone traps catches 978.
pest control, Malus orchards, pheromone traps 584.
sex pheromone, chemical composition 915.
sex pheromone, solvents effects on, 8,10-dodecadienol, analogs 154.
- Cydia splendana**,
orientation, Castanea sativa extracts, electroantennograms 167.
- Cydonia oblonga**,
flavor compounds, N.M.R. 1072.
- Cylas formicarius elegantulus**,
pheromone traps, monitoring, population levels 1282.
- Cylindrololus punctatus**,
antenna sensilla, morphology, sensory neurons 803.
- Cyperus scarious**,
essential oils, structure, isopatchoul-3-ene 310.
- Cyprinus carpio**,
facial nerve, taste fibers distribution, nervous system 1196.
- Cypripedium**,
effects on sex pheromone, mice 1360.
- Cysteine**,
+2,5-dimethyl-4-hydroxy-3-(2H)-furanone reaction, thiophenone products organoleptic properties 711.
- Cystophoreae**,
spermatozoa, Phaeophyta, Australia 1227.
- Cytochalein A**,
effects on chemotaxis, leukocytes (neutrophilic), rabbits 92.
- Cytochrome c oxidase**,
activity, olfactory bulb ablation reduction, cortex (olfactory), rabbits 58.
- Decus caccinatus**,
capture, females, traps, relationship, males attractants use 1335.
- Decus cucurbitae**,
volatiles chemical analysis 209.
mating behavior, sex pheromone, courtship 503.
- Decus dorsalis**,
pest control, equipment, dispensers, methyl eugenol + pesticides 587.
pest control, methyl eugenol, attractancy, economics 588.
volatiles chemical analysis 209.
- Decus neohumeralis**,
capture, females, traps, relationship, males attractants use 1335.
- Decus oleae**,
integrated control, pest control, pheromone traps, attractants, repellents, Olea europaea 973.
integrated control, pheromone traps + insecticides 1333.
integrated control, pheromone traps 1328.
pest control, integrated control, mating disruption, sex pheromone release 975.
pest control, trapping, pheromone traps, ammonium carbonate 874.
phagostimulants, amino acid composition, effects on feeding behavior 1294.
pheromone traps, odors traps, pest control 1326.
pheromone traps, sex pheromone 969.
reproduction, regulation, host plants chemicals, fruits, chemoreception 913.
sex pheromone, disruption, mating, integrated control 1329.
sex pheromone, pheromone traps, biological control, Olea 1310.
sex pheromone, pheromone traps, monitoring 970.
traps, color + ammonium acetate 971.
- Decus tryoni**,
capture, females, traps, relationship, males attractants use 1335.
oviposition, stimulation, inhibition, fructose, calcium 507.
- Dairy products**,
flavorings, food additives 1421.
- Dairy starters**,
dilution, fermentation, curd, organoleptic evaluation 709.
lactic acid bacteria, diacetyl production, flavor compounds, pH, temperature effects on 1462.
Streptococcus lactis diacetylactis effects on ghee flavor 367.
- Danaus plexippus**,
olfactory stimuli, pyrazines, predation, defensive mechanisms 1272.
- Detana ministra**,
prothorax glands, ultrastructure, secretions 1172.
- Deucus carota**,
environmental factors effects on, organoleptic evaluation 1481.
sewage sludges effects on flavor 332.
- Decay**,
control, sodium metabisulfite methodology, grapes, Vitis vinifera 1119.
- (2-E)-Decenyl acetate**,
sex pheromone, chemical composition, attractancy, Agrotis segetum 532.
- Defense secretions**,
chemical communication, Trachymyrmex urichi 546.
chemical composition, Nasutitermes 612.
chemical composition, pheromones, insecta 207.
monoterpenes, feeding behavior deterrents, Plagioderia versicolora 1273.
pheromones, actinidine, isolation, Phasmida 615.
Reticulitermes 202.
scent gland, (E)-2-hexenol, repellency, Hotea gambia 614.
- Defensive behavior**,
aggregation behavior, chemical stimuli, ecological evaluation, Panulirus interruptus 165.
burying behavior, aversion learning, induction, odors olfactory perception, flavor taste perception, rats 647.
pheromones, Orconectes virilis 616.
stress conspecific odors, handling activation, rats 1367.
- Defensive mechanisms**,
defense secretions, monoterpenes, feeding behavior deterrents, Plagioderia versicolora 1273.
predation, mimicry, olfactory stimuli, pyrazines, Danaus plexippus, Zygaena loniceræ, Amata 1272.
- Della antiqua**,
oviposition, factors affecting, host plants chemicals 617.
- Della radicum**,
flight activity, relationship, host plants, odors, plumes, anemotaxis, allylthiocyanate 559.
- Deltoites condula**,
sex pheromone, attractancy, identification 148.

- Demethylation**,
chemoreceptors, thermophilic bacteria 782.
- Denatonium saccharide**,
aversion, rats 1373.
- Dendrites**,
microtubules, ultrastructure, neurons, olfactory bulb, *Rana catesbeiana* 48.
- Dendritic branching**,
olfactory deprivation reduction, olfactory bulb dendritic branching, *Mustela* 10.
- Dendrobates pumilio**,
palatability, chemical perception, *Cupiennius coccineus* 548.
- Dendroctonus brevicornis**,
aggregation pheromone, attractancy, *Pinus ponderosa*, *brevicornis*, frontal 570.
- Dendroctonus frontalis**,
chemical communication, aggregation pheromone, synergism, *brevicornis* 1345.
- Dendroctonus pumilio**,
pest control, attractants, frontal 1314.
- Dendroctonus ponderosae**,
aggregation pheromone biosynthesis, sex differences, myrcene exposure 1300.
- Dendroctonus ponderosae**,
electroantennograms, semiochemicals 1258.
- Dendroctonus ponderosae**,
pheromone traps, pest control, semiochemicals, *Pinus contorta* 1267.
- Dendroctonus ponderosae**,
volatiles, chemical composition 523.
- Dendroctonus pseudotsugae**,
olfactory perception, pheromones, enantiomers, frontal 379.
- Dendroctonus terebrans**,
attractancy, bait, turpentine 197.
- Dendroctonus terebrans**,
chemical stimuli, monoterpenes, turpentine, paraquat, attractancy, *Pinus ellioti* 966.
- Dental manipulation**,
macrophages, chemotaxis, peritoneal exudate cells, rats 1208.
- Deodorization**,
filters use, odor pollution, livestock 1436.
- Deodorization**,
hydrogen peroxide, fermentation, *Manihot esculenta* 320.
- Deodorization**,
methodology, odor pollution 1427.
- Deodorization**,
odor pollution, slurries, sludges, livestock, conferences 1499.
- Deodorization**,
technology comparison, odor pollution, waste treatment 1435.
- 2-Deoxy-D-glucose**,
uptake, odor aversion learning effects on, olfactory bulb, early experience, rats 1178.
- Depolarization**,
odor compounds induction, N-18 neuroblastoma cells 11.
- Deprivation**,
olfactory stimuli, survival, abnormal behavior, *Salmo salar* 660.
- Deprivation**,
effects on organoleptic evaluation, *Perna viridis* 733.
- Dermacentor variabilis**,
sex pheromone, isolation, chemical composition 510.
- Dermatitis herpetiformis**,
chemotaxis, leukocytes (polymorphonuclear), man 75.
- Dermatophagoides**,
chemotaxis, monocytes, man 114.
- Dermestes maculatus**,
aggregation pheromone, attractancy, factors affecting 926.
- Deroceras laeve**,
mucus, trail following behavior 171.
- Desensitization**,
chemoreceptors, chemical modification, *Escherichia coli* 872.
- Deterrents**,
oviposition, chemoreception, leg, ovipositor, electrophysiology, *Pieris brassicae* 804.
- Deterrents**,
oviposition, pheromones, kairomones, *Pieris rapae*, *Pieris brassicae* 896.
- Development**,
abnormal behavior, olfactory stimuli deprivation, *Salmo salar* 660.
- Development**,
activity inhibition, olfactory bulb, rats 1181.
- Development**,
antennal sensilla, olfactory organs, *Calliphora erythrocephala* 38.
- Development**,
cholinergic nerves innervation, olfactory bulb, rats 1177.
- Development**,
odor aversion learning, rats 260.
- Development**,
olfactory bulb ablation effects on organization, recovery of function, cortex (olfactory), rats 61.
- Development**,
olfactory preferences, mother-offspring interactions effects on, *Lepus capensis* 226.
- Development**,
substance P neurons, taste buds, circumvallate papillae, ultrastructure, rats 62.
- Development**,
taste aversion learning, weaning factors affecting, rats 258.
- Development**,
taste aversion, rats 255.
- Development**,
taste perception, suckling behavior, rats 224.
- Developmental stages**,
peripheral nerves, chemoreceptors, insects, reviews 382.
- Diabrotica**,
attractants, use, *Zea mays* roots volatiles 176.
- Diabrotica**,
sex pheromone, isomers, 8-methyl-2-decanol, esters, synthesis 664.
- Diabrotica barberi**,
bait, attractancy, comparison, eugenol, 8R-methyl-2R-decyl propanoate 185.
- Diabrotica lemniscata**,
sex pheromone, isomers, attractancy, reproductive isolation, *Diabrotica longicornis* 1269.
- Diabrotica longicornis**,
sex pheromone, isomers, attractancy, reproductive isolation, *Diabrotica lemniscata* 1269.
- Diabrotica undecimpunctata howardi**,
attractants, chemical composition, volatiles, *Cucurbita maxima* 940.
- Diabrotica virgifer virgifer**,
attractants, chemical composition, volatiles, *Cucurbita maxima* 940.
- Diabrotica virgifer**,
bait, attractancy, comparison, eugenol, 8R-methyl-2R-decyl propanoate 185.
- Diacyetyl**,
production, flavor compounds, pH, temperature effects on, dairy starters, lactic acid bacteria 1462.
- Diachrysa chrysis**,
sex pheromone, attractancy, chemical composition 917.
- Diachrysa tutti**,
sex pheromone, chemical composition, attractancy 917.
- Diachrysa tutti**,
sex pheromone, reproductive isolation, *Diachrysa chrysis*, Switzerland 916.
- Diachrysa chrysis**,
sex pheromone, attractancy, identification 148.
- Diadromus pulchellus**,
electroantennograms, *Acrolepiopsis assectella*, *Allium* odors, conspecific odors 1306.
- Diadromus pulchellus**,
electroantennograms, *Acrolepiopsis assectella*, *Allium* odors, conspecific odors 1306.
- Diadromus pulchellus**,
host searching behavior, pheromones 934.
- Diapause induction**,
diets effects on, *Amblyseius potentillae* 1305.
- Diaphania hyalinata**,
sex pheromone, chemical analysis, orientation 539.
- Diaphania nitidalis**,
sex pheromone, chemical composition, attractancy 901.
- Diaploids**,
extracts, kairomones, hosts recognition, host selection, *Aphytis*, *Comperiella* 993.
- Diatraea grandiosella**,
pheromone traps, synthetic sex pheromone, catching methods, comparison, efficacy 1343.
- Diatraea grandiosella**,
sex pheromone, identification, characterization 1257.
- 2,6-Dichlorophenol**,
pheromones, levels, relationship, feeding, *Rhipicephalus appendiculatus* 542.
- Dichromorpha simulana**,
synthetic attractants, 9,11-dodecadienyl alcohols, 9,11-dodecadienyl acetates, 9,11-dodecadienyl aldehydes 665.
- Diclofenac sodium**,
effects on leukocytes (neutrophilic) chemotaxis, man 854.
- Dicytostellium**,
cyclic AMP, myosin phosphorylation stimulation, role chemotaxis 871.
- Dicytostellium discordeum**,
actin role, ecdyskeleton, relationship, chemotaxis 121.
- Dicytostellium discordeum**,
cell surface, folic acid receptors, chemotaxis 489.
- Dicytostellium discordeum**,
cells, development, chemotaxis 1229.
- Dicytostellium discordeum**,
chemotactic factors, cyclic AMP receptors 874.
- Dicytostellium discordeum**,
chemotaxis, actin, cytoskeleton 118.
- Dicytostellium discordeum**,
cyclic AMP receptors, role chemotaxis, adenylate cyclase activation, cyclic GMP accumulation 1225.
- Dicytostellium discordeum**,
GTP+GDP effects on chemotaxis cyclic AMP receptors 490.
- Dicytostellium leucum**,
actin role, ecdyskeleton, relationship, chemotaxis 121.
- Dicytostellium mucronoides**,
actin role, ecdyskeleton, relationship, chemotaxis 121.
- Dicytostellium purpureum**,
actin role, ecdyskeleton, relationship, chemotaxis 121.
- Dielisphs virginiana**,
food sources, toxicity, olfactory stimuli, aposematism 655.
- Dielisphs virginiana**,
taste discrimination, fruit bodies, *Agaricus bisporus* 269.
- Dilidinium neatum**,
susceptibility, food chemoreceptors 549.
- Diets**,
effects on chemical composition, volatiles, feces, man 1407.
- Diets**,
effects on host searching behavior, diapause induction, kairomone, *Amblyseius potentillae* 1305.
- Diets**,
taste perception, infants, man 29.
- Digenes**,
chemical communication 1349.
- Digestion (aerobic)**,
animal wastes, odor control, heterotrophic bacteria 1423.
- Digestion (anaerobic)**,
odor pollution control, livestock wastes 1443.
- Digestion (anaerobic)**,
odor pollution control, livestock wastes 1444.
- Digestion (anaerobic)**,
odor pollution control, livestock wastes 1445.
- Digestion (anaerobic)**,
use odor pollution control, feces, livestock 1446.
- Digestive tract**,
maturation, perception, stimuli, relationship, taste control, behavior, rats 256.
- 3,5-Diisobutyl-1,2,4-trithiolane**,
characterization, bacon odors 294.
- Dileptus anser**,
susceptibility, food chemoreceptors 549.
- 2,6-Dimethyl-2,5-heptadiene**,
phitoxiation, pheromones, *Pseudococcus comstocki* 671.
- 2,5-Dimethyl-4-hydroxy-3(2H)-furanone**,
+cysteine reaction, thiophenone products organoleptic properties 711.
- Diorctria amatella**,
sex pheromone, Z-11-hexadecenyl acetate, identification 881.
- Dispersal**,
detection, pheromone traps, catches, *Coleophora laricella* 595.
- Dispersal**,
pheromones, role, secretions, prothoracic glands, *Datana ministra* 1172.
- Dispersal**,
population dynamics, pheromone traps, *Choristoneura murinana*, France 963.
- Dispersal**,
secretions, relationship, age, sex differences, *Blattella germanica* 555.
- Disposal**,
sludges, wastewater treatment, odor pollution 1450.
- 8,10-Dodecadienol**,
sex pheromone, solvents effects on, *Cydia pomonella* 154.
- (E)-7-(2,9-Dodecadienyl acetate)**,
pheromone traps, vineyard population density, *Loxia botrana* 1309.
- 9,11-Dodecadienyl acetates**,
synthetic attractants, *Cosmopterix gemmiferella*, *Dichromorpha simulana*, *Tortricida testacea*, *Anclis* 665.
- 9,11-Dodecadienyl alcohols**,
synthetic attractants, *Cosmopterix gemmiferella*, *Dichromorpha simulana*, *Tortricida testacea*, *Anclis* 665.
- 9,11-Dodecadienyl aldehydes**,
synthetic attractants, *Cosmopterix gemmiferella*, *Dichromorpha simulana*, *Tortricida testacea*, *Anclis* 665.
- (E)-3-Dodecenyl acetate**,
chemical composition, sex pheromone, *Scrobipalopsis solanivora* 146.
- (Z)-3-Dodecenyl acetate**,
chemical composition, sex pheromone, *Scrobipalopsis solanivora* 146.
- (E)-7-Dodecenyl acetate**,
sex pheromone, chemical composition, attractancy, *Agrotis segetum* 532.
- Dogs**,
EEG, eugenol+benzaldehyde olfaction threshold 384.
- Dogs**,
glucocorticoids effects on leukocytes chemotaxis 452.
- Dogs**,
olfaction, detection, chemicals, waste disposal sites 1122.
- Dogs**,
serum, chemotactic agents, chemotaxis larvae, *Anystostoma caninum* 134.
- Dogs**,
stimulation C-fibers, lung, effects on reflexes activity, capsaicin 22.
- Dolichotis patagonum**,
scent gland, anatomy, scent marking behavior 252.

- omniance**, female discrimination, urine odors, males, mate selection, hamsters 1008.
- queens**, social organization, colonies, pheromones, *Apis mellifera* 991.
- opamine**, biosynthesis, release, hypoxia stimulation, carotid body, cats 784.
- effects on activity**, chemoreceptors, carotid body, rabbits 402.
- opamine β -mono-oxygenase**, olfactory organs, distribution, rats 51.
- oxycycline**, effects on leukocytes (granulocytic) chemotaxis, man, rabbits 446.
- repandiae**, sex pheromone, pheromone traps, attractancy 602.
- rimase**, structure-activity relationships, stereochemistry, olfactory perception 682.
- inking behavior**, taste preferences salts, naloxone, antagonism sulpiride hyperdipic activity, rats 1149.
- inking water**, odors, organoleptic evaluation, industrial effluents, paper industry 322.
- rosophila Immigrans**, fruits odors, chemicals, chemoreception 174.
- rosophila lativittata**, fruits odors, chemicals, chemoreception 174.
- rosophila melanogaster**, aggregation pheromone, chemical composition, vacenyl acetate 564.
- courtship**, inhibition, association, cis-vaccenyl acetate, pheromones 879.
- courtship**, inhibition, role, cis-vaccenyl acetate, cis-vaccenol, esterase 6 1246.
- courtship**, role, olfaction, sex pheromone, mutants 1268.
- fruits odors**, chemicals, chemoreception 174.
- mutants**, taste perception, deletion gene mapping 391.
- scent marking behavior**, habitat marking, gene regulation 610.
- sensilla**, maxillary palps, ultrastructure, mechanoreceptors, chemoreceptors 39.
- sex pheromone**, attractancy, correlation, chemical composition 516.
- rosophila simulans**, fruits odors, chemicals, chemoreception 174.
- scent marking behavior**, habitat marking, gene regulation 610.
- rosophila virilis**, aggregation pheromone, chemical composition, esters, 2-methyl-(E)-2-butenic acid 564.
- Drug abuse**, chemotaxis, monocytes, man 113.
- Drugs**, antimicrobial agents, flavorings, children, man 747.
- effects on evoked potentials**, olfactory stimuli, mitral cells, olfactory bulb, gekko 1153.
- induction**, taste aversion learning, similarity, symptoms, rats 640.
- Oryzocetes autographus**, chemical communication, pheromone traps, attractancy 144.
- Duchenne's muscular dystrophy**, leukocytes (neutrophilic), chemotaxis, man 1216.
- Dufour's gland**, secretions, chemical composition, chemoreception, kin recognition, Halictinae 620.
- secretions**, pheromones, host selection, superparasitism, *Nemeritis canescens* 902.
- sex pheromone**, identification, macrocyclic lactones, *Lasioglossum zephyrum* 511.
- Dust**, role odor pollution, livestock 1457.
- (E)-8,10-Dodecadien-1-ol acetate**, antipheromones, disruption, chemical communication, *Cydia pomonella* 1330.
- (E)-3,5-Tetradecadienyl acetate**, pheromone traps, height, relationship, catches, *Acosorus centerensis* 186.
- Early experience**, odor aversion learning effects on 2-deoxy-D-glucose uptake, olfactory bulb, rats 1178.
- odors**, enhancement, spatial discrimination learning, rats 257.
- odors**, olfactory perception, correlation, sexual behavior, males, rats 627.
- role**, olfactory preferences, rats 271.
- social environment**, effects on response, conspecific odors, mice 240.
- Ectatomma ruidum**, recruitment, olfaction, food 937.
- Ectoaketon**, actin role, relationship, chemotaxis, *Dictyostelium discoideum* 121.
- EEG**, activity, olfactory bulb, correlation conditioned response odors stimuli, rabbits 1142.
- eugenol**- β -benzaldehyde olfaction threshold, dogs 384.
- medulla oblongata**, olfactory bulb response, amino acids neurotransmitters, *Pagrus major* 385.
- olfactory bulb**, olfaction, algal blooms, *Chattonella*, *Seriola quinqueradiata*, *Pagrus major* 759.
- olfactory bulb**, olfactory discrimination learning, rabbits 3.
- Eggs**, age, washing, organoleptic evaluation 368.
- characterization**, chemotactic factors, leukocytes (neutrophilic), *Schistosoma japonicum* 457.
- cooking methodology effects on**, organoleptic evaluation 739.
- hard-boiled**, odors, *Clodristium botulinum* 725.
- Nezara viridula**, recognition, bioassays, chemical stimuli, kairomones, *Trissolcus basalis* 194.
- +orange juice beverages**, storage effects on off flavor 341.
- salts effects on organoleptic properties**, cooking 737.
- Egypt, Arab Rep.**, pest control, use mating behavior disruption, sex pheromone, *Pectinophora gossypiella* 201.
- Elastin**, fragments, role monocytes chemotaxis, man 1214.
- Eldens saccharina**, synthesis, sex pheromone, males 1040.
- Electrical properties**, sensilla membranes, olfactory organs, *Antheraea polyphemus* 1.
- Electrical stimulation**, chorda tympani nerve, induction taste response, characterization, rats 396.
- Electro-olfactograms**, activity, olfactory nerve sectioning, effects on, characterization, *Salmo gairdneri* 1163.
- Electroantennograms**, Acrolepiopsis assectella, *Allium* odors, *Diadromus pulchellus*, *Diadromus collaris* 1306.
- n-alkyls**, systematics, biotypes, *Conogethes punctiferalis* 1042.
- chemoreception**, sex pheromone, electrophysiology, *Glossina morsitans morsitans* 755.
- chemoreception**, volatiles, host plants, *Acrolepiopsis assectella* 752.
- olfactory perception**, *Periplaneta australasiae*, *Periplaneta fuliginosa* 1130.
- olfactory perception**, sex pheromone, *Hadeninae* 147.
- orientation**, *Castanea sativa* extracts, *Cydia splendana*, *Cydia fagiglandana* 167.
- pheromones**, males, *Anastrepha ludens* 751.
- semiochemicals**, *Dendroctonus ponderosae* 1258.
- sex pheromone**, purification, characterization, *Periplaneta brunnea*, *Periplaneta americana* 1252.
- Electron microscopy**, papillae, cells, taste, rabbits 1199.
- ultrastructure**, chemoreceptors, mouth, *Beroe cucumis* 826.
- Embryo fibroblasts**, SV40 transformed cells, chemotaxis, fibronectin, Boyden chamber, man 115.
- Embryos**, olfactory organs development, *Sarotherodon galilaeus* 823.
- Emergence**, monitoring, pheromone traps, *Quadraspidiotus pemiciosus* 1339.
- eviction**, pheromone traps, *Quadraspidiotus pemiciosus*, USA, Virginia 983.
- Empetrum nigrum**, volatiles identification 285.
- Encapsulation**, methodology, flavorings 372.
- storage use**, β -cyclodextrin 1496.
- Endoplasmic reticulum**, regulation, calcium intracellular levels, olfactory nerve axons, *Rana* 56.
- Endothelium**, cells migration behavior, ADP, adenosine, adenine 839.
- cells**, N-formyl-methionyl-leucyl-phenylalanine, complement component C5a effects on leukocytes (polymorphonuclear) adherence endothelium cells, leukocytes (polymorphonuclear), man 837.
- chemotaxis factors effects on vascular system**, placenta, man 125.
- Endothenia quadrimaculata**, sex pheromone, attractancy, identification 148.
- Endotoxins**, effects on monocytes chemotaxis, eye, rabbits 860.
- Escherichia coli**, stimulation, macrophages, release, chemotactic factors, leukocytes (polymorphonuclear), rats 1217.
- Enterotoxin B**, *Staphylococcus aureus*, effects on sex pheromone production, males, *Anthonomus grandis* 883.
- Environmental conditions**, effects on pheromone traps catches, *Cydia pomonella* 978.
- Environmental effects**, role morphology adaptations, olfactory organs 774.
- Environmental factors**, effects on, organoleptic evaluation, *Daucus carota* 1481.
- Enzymes**, degradation, sex pheromone, scales, *Antheraea polyphemus* 753.
- Ephestia elutella**, sex pheromone, interspecific attractancy, *Pyrillidae* 897.
- surveys**, population dynamics, efficacy, pheromone traps 190.
- wings sex pheromone**, chemical analysis, orientation 538.
- Epidermis**, cells, alarm pheromone containing, 17 α -methyltestosterone inhibition, sexual reproduction, *Brachyidura rerio* 1002.
- chemotaxis**, fibroblasts comparison transformed cells, man 864.
- keratinocytes**, thymocyte-activating factor production, lymphocytes T chemotactic factors 464.
- Epidermolysis bullosa**, antigen-antibody complexes, chemotaxis, leukocytes, man 96.
- Epilachna varivestis**, food preferences, role, chemoreceptors 807.
- Epinotia**, pheromone traps, attractancy, (Z,Z)-7,9-dodecadienyl acetate 601.
- Epithelium**, cells, alarm pheromone, androgens effects on, *Semotilus margarita* 1003.
- mouth**, taste buds, distribution, occurrence, function, *Laetilia* 400.
- olfactory bulb**, testosterone metabolism, castration effects on, males, rats 1139.
- olfactory bulb**, 2-isobutyl-3-methoxypyrazine receptors binding, kinetics, rats 47.
- receptors cells**, olfactory bulb, ultrastructure, transmission electron microscopy, *Callicebus moloch* 1189.
- rectum**, functional morphology, pheromones dissemination, *Ceratitis capitata* 920.
- Erythro-6-acetoxy-5-hexadecanoid**, aggregation pheromone, orientation, oviposition, *Culex quinquefasciatus* 156.
- Escherichia coli**, chemoreceptors desensitization, chemical modification 872.
- chemotaxis**, behavior, biochemical characteristics 877.
- chemotaxis**, calcium transport, cyclic GMP 492.
- chemotaxis genes**, nucleotide sequence, proteins, amino acid sequence predictions 480.
- chemotaxis**, maltose 484.
- chemotaxis receptors**, mutants, characterization, phenotypes, tar gene 1230.
- chemotaxis regulators**, methyl esterase 127.
- chemotaxis**, role, cyclic AMP, cyclic GMP 1233.
- cyclic GMP** role chemotaxis regulation 486.
- endotoxins**, stimulation, macrophages, release, chemotactic factors, leukocytes (polymorphonuclear), rats 1217.
- infection**, α -hemolysin, leukocytes (neutrophilic), chemotaxis 1219.
- methyl-accepting chemotaxis protein**, methylation 487.
- mutants**, chemotaxis response maltose 130.
- mutants**, oxygen, aerotaxis 485.
- Staphylococcus aureus**, leukocytes (neutrophilic), chemotaxis, mastitis, cattle 1221.
- urine**, identification, odors, colonial characteristics 1121.

Subject Index

Essential oils

- aroma compounds 695.
- chemical analysis, *Thymus satureioides*, *Thymus broussoneti*, *Thymus maroccanus* 318.
- chemical composition, *Asarum canadense* 705.
- chemical composition, buds, *Ribes nigrum* 288.
- chemical composition, *Cyperus scariosus* 310.
- chemical composition, *Ocimum kilimandscharicum* 317.
- chemical composition, olibanum, *Boeswellia* 316.
- chemical composition, *Tagetes minuta* 701.
- chromatography, *Hyssopus officinalis* 1415.
- Citrus unschui* 1416.
- comparison, *Citrus aurantifolia*, *Citrus latifolia* 696.
- essential oils 698.
- essential oils 1077.
- Eucalyptus globulus* 313.
- extraction, solid phase methods, hops 688.
- flavor compounds, tobacco 309.
- fragrances, *Hyacinthus orientalis*, *Hyacinthus nonscriptus* 700.
- gas chromatography, *Pelargonium* 311.
- harvesting frequency, organoleptic evaluation, *Mentha piperita* 314.
- high-performance liquid chromatography methodology 1078.
- hops, aroma compounds, beer 298.
- isopatchoul-3-ene structure, *Cyperus scariosus* 310.
- perfumes, *Geranium macrorrhizum* 694.
- production, reviews 692.
- quality control, reviews 312.
- recovery, *Petroselinum crispum* 702.
- Santalum album* 704.
- spatuleniol, buds, *Ribes nigrum* 1411.
- Tagetes* 697.
- tegument, chemical composition, nuts, *Prunus amygdalus* 315.
- Thymus serpyllum* 1417.

Esterase

- effects on Cheddar cheese flavor 1079.

Esterase 6

- role, courtship inhibition, *Drosophila melanogaster* 1246.

Esters

- aggregation pheromone, chemical composition, 2-methyl-(E)-2-butenic acid, *Drosophila virilis* 568.

Estrus

- behavior, luteinizing hormone secretion, ovulation, olfactory stimuli, goats 1354.
- detection, olfactory perception, males, cattle 999.
- hormones, pheromones regulation, chemical communication, mice 995.
- males induction, females, pheromones, mice 1361.
- mounting pheromones, isolation, vagina mucus, cattle 1000.
- olfactory stimuli, role, mother-offspring interactions, rats 1005.
- olfactory stimuli, susceptibility, predation, *Mustela nivalis*, *Peromyscus maniculatus bairdi* 268.

Estrus cycle

- change, sex pheromone, vomeronasal organ ablation, mice 214.
- urine odors, reproductive behavior, mice 222.

Ethanol

- induction taste aversion, conditioned response, amitrole inhibition, mechanisms, rats 1014.
- olfaction, aversion learning, role, UCS, juveniles, rats 646.
- taste aversion learning, role, taste, alcoholic beverages, rats 1372.
- taste aversion learning, zimeidine induction, rats 1015.
- taste preferences, hunger stimulation, rats 650.

Ethyl ether

- monoterpenes, chemical analysis, grapes, wine 295.
- volatiles analysis, gas chromatography methodology 373.

3-Ethyl-2,5-dimethylpyrazine

- identification, trail pheromone, *Manica rubida* 162.

Ethretinate

- effects on leukocytes (neutrophilic) chemotaxis, psoriasis, leukocytes (neutrophilic) 86.

Eucalyptus

- antifeedants, plant extracts, *Pieris brassicae* 557.

Eucalyptus globulus

- essential oils 313.

Eucosma sonomana

- pheromone traps, attractancy, pesticides effects on 188.

Eudemone

- sex pheromone, pest control, *Lobesia botrana* 196.

Eugenol

- bait, comparison, *Diabrotica barberi*, *Diabrotica virgifera virgifera* 185.
- olfaction threshold, EEG, dogs 384.

Euglandina roseae

- chemoreception, trail following behavior 577.

Euglena gracilis

- attractancy, *Moniliales* metabolites 164.

Eumeces fasciatus

- conspecific odors, chemoreception 1010.

Eumeces laticeps

- conspecific odors, chemoreception 1010.

Euposicella ambigua

- sex pheromone chemical composition effects on mating 914.

Eurema hecabe mandarina

- host selection, oviposition, deterrents, chemicals, host plants 139.

Eurytoma amygdali

- sex pheromone, attractancy 1250.

Euxoa declarata

- hybridization, effects on, periodicity, sex pheromone, release 525.

Euxoa roeburni

- hybridization, effects on, periodicity, sex pheromone, release 525.

Evoked potentials

- odors, olfactory bulb, hamsters 1136.
- olfactory bulb, neonates, rats 773.
- olfactory stimuli, mitral cells, olfactory bulb, drugs effects on, *Gekko gekko* 1133.

Evolution

- chemical communication, Formicidae 1295.

- olfactory organs, Vertebrata 822.

Evolution, (continued)

- production technology, perfumes 1117.
- relationship, chemical communication, workers, *Acromyrmex landolti* 1286.

Excretory products

- kairomones, stimulation, host selection, *Heliothis zea*, *Trichoplusia ni*, *Microplitis demolitor* 992.

Exocrine glands

- prothorax, ultrastructure, secretions, *Datana ministra* 1172.

Exploratory behavior

- habituation, olfactory perception, visual perception, rats 1386.
- olfaction, rats 1395.
- olfactory bulb ablation, olfaction, rats 1394.

Exudates

- Glycine max seeds, chemotaxis, *Pseudomonas* 669.

Eye

- endotoxins effects on monocytes chemotaxis, rabbits 860.

Facial lobe

- ramus mandibularis projections, *Plotosus anguillaris* 1197.

Facial nerve

- innervation, palate, projections, medulla oblongata, *Fugu pardalis* 377.
- nerve endings ultrastructure, solitary tract nucleus, hamsters 64.
- ramus mandibularis projections, facial lobe, *Plotosus anguillaris* 1197.
- taste fibers distribution, nervous system, *Cyprinus carpio* 1196.

Fasciola

- purification, characterization, chemotactic factors 483.

Fat body

- sex pheromone biosynthesis, glucose, adenosinetriphosphatase, effects on, *Anthonomus grandis* 1248.

Fats

- content, effects on pork, organoleptic evaluation 348.
- levels effects on, reconstitution beef, organoleptic evaluation 359.
- levels, organoleptic evaluation, goats meat 361.
- volatiles, flavor compounds, gas chromatography, mutton 292.

Fatty acids

- effects on flavor, milk, *Oreamnos americanus* 1410.
- olfactory perception, olfactory organs morphometry, *Sorex areneus* 55.

Feces

- containing pheromones, mother, offspring ingestion, rats 231.
- odor pollution control, pigs 1434.
- odor pollution control, pigs 1448.
- odor pollution control use digestion (anaerobic), livestock 1448.
- olfactory discrimination, role, social interactions, *Nyctereutes procyonoides* 238.
- scent marking behavior, home range, *Apodemus sylvaticus* 241.

Fecundity

- body size, mate selection, olfactory stimuli, *Notophthalmus viridescens* 998.

Feeding

- shipke okumurai attractancy, *Heliothis* 558.
- Palaeomon pascuensis* attractants role, *Misgurnus anguillicaudatus* 1382.
- plant extracts effects on, *Pieris brassicae*, *Plutella xylostella* 928.
- relationship, 2,6-dichlorophenol levels, *Rhipicephalus appendiculatus* 542.
- role, pheromones, pest control, Tephritidae 960.
- stimulants, luteolin-7-glucoside, isolation, *Salix gracilistylis*, *Chrysomelidae* 160.

- stimulation, feeds additives, trimethylammonium hydrochloride, *Macrobrachium rosenbergii* 944.
- stimuli, chemoreception, *Trichostrongylus colubriformis* 580.

Feeding behavior

- association, amino acids, gustatory stimuli, *Periplaneta americana* 575.
- association semiochemicals, bioassays, *Anthonomus grandis* 1289.
- body odors effects on, predator-prey interactions, *Gulo gulo*, *Lepus americanus* 1026.

- chemical stimuli, bioassays, *Aplysia* 1274.

- chemoreception, lectins, *Hydra japonica* 1271.

- chemoreception role, foot, *Bullia digitalis* 1297.

- deterrents, defense secretions, *Plagioderma versicolora* 1273.

- flavor compounds, serotonin effects on, rats 654.

- inosine binding taste buds effects on, *Scophthalmus maximus* 1151.

- Lepus americanus*, *Vulpes vulpes* urine odors, 3-methyl-3-butenyl methyl sulfide, suppression 1380.

- olfactory perception, radiation effects on, *Ceratitis capitata*, *Anastrepha suspensa* 170.

- phagostimulants, amino acid composition, effects on, *Dacus oleae* 1294.

- phagostimulants, *Pandanus borealis* extracts, *Gadus morhua* 656.

- satielin injection, ventricles (cerebral), effects on, rats 641.

- sugars, effects on, *Popillia japonica* 1278.

- taste receptors activity, characterization, *Homonas americanus* 775.

- taste stimuli activation, deterministic vs. probabilistic models, rats 1032.

- vomeronasal organs, olfaction, *Mammalia* 634.

Feeds

- additives, trimethylammonium hydrochloride, chemoreception, feeding stimulation, *Macrobrachium rosenbergii* 944.

Fattia jaculifera

- sex pheromone, chemical composition, attractancy 518.

Females

- males induction estrus, pheromones, mice 1361.

- vagina secretions, odor perception effects on males sexual behavior, hamsters 1357.

- vomeronasal organ removal effects on lordosis behavior, hamsters 1355.

Fermentation

- acidic pH+proteolysis effects on flavor, cocoa beans 716.

- blood plasma, effects on organoleptic evaluation, sausages, cattle 1479.

- dairy starters, dilution, organoleptic evaluation, curd 709.

- hydrogen peroxide deodorization, *Manihot esculenta* 320.

- kelfi, flavor, aroma 334.

- meat products, aroma, starter cultures, organoleptic properties, bacteria 1086.

- soy sauce, aroma production, *Aspergillus oryzae* 328.

- Streptococcus lactis*, starter cultures, soybeans, flavor, cheese substitutes 721.

- Streptococcus lactis*, starter cultures, soybeans, flavor, cheese substitutes 1461.

- temperature, wine production, taste panel evaluation, cultivars, *Vitis vinifera* 1475.

- use odor pollution control, livestock wastes 1447.

- Ferrulactone**, aggregation pheromone, synthesis, *Cryptolestes ferrugineus* 1045.
- Fertilizer applications**, odor pollution control, manure 1432.
odor pollution control, manure 1433.
- Fetuses**, chemoreceptors, man 1155.
- Fibroblasts**, cattle, chemotactic factors, complement component C5a, inflammation, man 496.
chemotaxis, mucopolysaccharidosis, man 93.
chemotaxis, wound healing, tumor cells 469.
comparison transformed cells, chemotaxis, epidermis, man 864.
leukotriene B₄ effects on chemotaxis 124.
SV40, transformed cells chemotaxis, fibronectin fragments 481.
- Fibronectin**, chemotaxis, SV40 transformed cells embryo fibroblasts, Boyden chamber, man 115.
fragments, fibroblasts transformed cells, SV40, chemotaxis 481.
plasma, chemotactic factors, N-formyl-methionyl-leucyl-phenylalanine, leukocytes (neutrophilic) 102.
- Fibronectin receptors**, fragments, chemoreceptors, monocytes, man 473.
- Filaments**, proteins, neurons containing vimentin, olfactory epithelium, rats 65.
- Filter paper**, monocytes, chemotaxis assays 844.
- Filters**, use deodorization, odor pollution, livestock 1436.
use odor pollution control 1437.
- Fish**, organoleptic evaluation, microwave oven comparison baking, heating effects on, organoleptic properties 347.
sausages, flavor, comparison pork sausages, taste panel evaluation 344.
- Fishery products**, *Salmo gairdneri*, spoilage, odors, Vibrionaceae 1093.
Salmonidae, vacuum packaging, spoilage, Lactobacillus, bacteria, odors 1091.
salts preservation, nitrate effects on odors, Clupea 328.
salts preservation, nitrate effects on organoleptic evaluation, Clupea 329.
sauces, aroma, volatiles 1403.
- Fitness**, reproductive strategy, unisexual populations, chemical stimuli, identification, conspecifics, reproductive strategy 1384.
- Flavobacterium**, odors formation, cream, butter, contamination 1472.
- Flavone glycosides**, plant extracts, bioassays, oviposition stimulants, *Citrus nutsudaidai*, Papilio protenor 1256.
- Flavor**, acidic pH+proteolysis effects on, fermentation, cocoa beans 716.
aging, computers analysis, wine 282.
amino acids effects on beer 1089.
analysis, food 1420.
bacteria, contamination, pasteurized milk 1084.
beer, maturation, yeast metabolism, reviews 1463.
chemical composition, Allium 1086.
chemical composition, Allium 1067.
chemical composition comparison organoleptic evaluation, Allium 1112.
debitting, *Citrus* fruit juices, nomilin acetyl-tyase activity, *Corynebacterium* fascians 323.
extraction methodology 745.
fatty acids effects on, milk, *Oreomys americanus* 1410.
food additives, color 740.
food additives, esterase+lipase effects on Cheddar cheese 1079.
food additives, Zingiber officinale 1465.
freezing, effects on, Prunus 1469.
hydrogen peroxide effects on, rancidity, ghee 729.
hydrogenation effects on, soybean oil 1468.
kefir fermentation, aroma 334.
media (culture), nutrient requirements, *Morchella crassipes* 1088.
orange juice, food processing effects on 331.
organoleptic evaluation, chemical composition, beer 1106.
organoleptic evaluation, methodology 350.
organoleptic evaluation, shelf life, milk products 717.
oxidation, buttermilk solids, incorporation, milk 1090.
pork sausages, comparison fish sausages, taste panel evaluation 344.
 γ radiation effects on chemical composition, Allium sativum 304.
seaweed sludges effects on, *Daucus carota*, *Cucumis sativus* 332.
strawberries yogurt beverages, taste panel evaluation 360.
Streptococcus lactis diacetylactis dairy starters effects on, ghee 367.
sweeteners, potassium sorbate effects on, pasteurized milk 710.
taste perception, aversion learning, induction, defensive behavior, burying behavior, rats 647.
temperature+light effects on, *Apium graveolens* 1495.
ultrahigh temperature pasteurization effects on, milk, reviews 1087.
volatiles, chemical composition, *Camellia sinensis* 286.
volatiles chemical composition, *Citrus vulgaris* 689.
volatiles, chemical composition, grapefruit juice 1054.
volatiles, gas chromatography, cheese 280.
- Flavor compounds**, cheese flavor, Tilsit cheese 284.
chemical analysis, apples 715.
chemical analysis, gas chromatography, beer 1068.
chemical composition, beer 1075.
chemical composition, Cheddar cheese 1070.
chemical composition, *Majorana hortensis* moench 1060.
cues, taste perception, motivation, learning behavior 648.
development 720.
diacetyl, production, pH, temperature effects on, dairy starters, lactic acid bacteria 1462.
essential oils, tobacco 309.
extracts, perfumes, conferences 750.
formation, reaction mechanisms, wine, alcoholic beverages 685.
2-hydroxy-3,4-dimethyl-2-buten-4-olide, *Angelica dahurica* 687.
N.M.F., *Cydonia oblonga* 1072.
phenols, chemical composition, high-pressure liquid chromatography, wine 306.
production 714.
proteins binding, bovine serum albumin, whey 690.
- Flavor compounds, (continued)**
taste perception, learning behavior, rats 649.
volatiles, Camembert cheese flavor, Brie cheese flavor, *Penicillium caseicolum* 300.
volatiles, gas chromatography, fats, mutton 292.
volatiles, methodology detection, milk 1071.
volatiles, monoterpenes, *Ambrosiomyces monospora* 674.
- Flavor constituents**, methodology, volatiles 1412.
volatiles, flowers, fruits, Sambucus nigra 291.
volatiles, fruits, *Carica pentagona* 686.
- Flavorings**, antimicrobial agents, drugs, children, man 747.
encapsulation methodology 372.
food additives, black tea 1418.
food additives, dairy products 1421.
food additives, production 1494.
food additives, sweeteners 1422.
food processing, food 718.
hexobarbital, chemical composition, fruit juices, alcoholic beverages, Malus 1409.
- Flight activity**, anemotaxis, chemotaxis, host location, *Glossina pallidipes*, *Glossina morsitans* 571.
host plants, odors, plumes, anemotaxis, allylthiocyanate, *Delia radicum* 559.
monitoring, pheromone traps, attractants, *Pexicopia malvela*, *Platyedra subcnearea* 968.
monitoring, pheromone traps, *Coleophora laricella* 573.
olfactory perception, sex pheromone, orientation, *Grapholita molesta* 143.
orientation, factors affecting, sex pheromone, (Z,E)-9,11-tetradecadienyl acetate, (Z,E)-9,12-tetradecadienyl acetate, *Spodoptera litura* 138.
relationship, pheromone traps, ips typographus 608.
response, starvation, hosts odors, carbon dioxide, *Stomoxys calcitrans* 177.
sex pheromone+analogs effects on, *Choristoneura fumiferana* 890.
sex pheromone effects on, *Hyphantria cunea* 1244.
sex pheromone, males, *Agrotis segetum* 528.
- Flowers**, flavor constituents, volatiles, *Sambucus nigra* 291.
olfactory stimuli, foraging behavior, *Apis mellifera*, *Lotus corniculatus* 951.
- Fluoxetine**, effects on avoidance learning, olfactory bulb lesions, rats 643.
- Fluprazine hydrochloride**, effects on olfactory discrimination, rats 1383.
effects on olfactory preferences, rats 1374.
- Folic acid receptors**, cell surface, chemotaxis, *Dictyostelium discoideum* 489.
- Food**, chemoreceptors, susceptibility, *Dileptus anser*, *Didinium nasutum* 549.
cold storage, spoilage, organoleptic properties 1464.
cooking conditions, organoleptic evaluation 369.
deprivation, urine odors effects on puberty, females, mice 223.
flavor analysis 1420.
flavorings, food processing 718.
olfaction, recruitment, *Ectatomma ruidum* 937.
organic compounds, attractancy, *Tyrophagus putrescentiae* 933.
shelf life effects on, organoleptic evaluation 1489.
- Food additives**, color effects on flavor+safety 740.
esterase+lipase effects on Cheddar cheese flavor 1079.
flavor, *Zingiber officinale* 1465.
flavorings, black tea 1418.
flavorings, dairy products 1421.
flavorings, production 1494.
flavorings, sweeteners 1422.
sweeteners, sucrose, confectionery products 1419.
- Food contamination**, odors, volatiles, development, beef 722.
- Food intake**, food preferences, taste preferences, zooplankton 947.
nicotine effects on, role, sweetness, nutritive value, rats 267.
nutritional status, olfaction, anosmia, man 37.
taste aversion learning, azodrin, iso-octyl 2,4-dichlorophenoxyacetate, *Poephila guttata castanotis* 653.
- Food organisms**, palatability, chemical perception, *Dendrobates pumilio*, *Cupiennius coccineus* 548.
- Food plants**, pyrazines, olfactory stimuli, predation, defensive mechanisms, mimicry, *Danaus plexippus*, *Zygaena loniceræ*, *Amata* 1272.
volatiles, β -bisabolol, orientation, *Anthonomus grandis* 576.
- Food preferences**, bioassays, leg sensilla chemoreception, *Chilo partellus* 2.
food intake, taste preferences, zooplankton 947.
plant extracts, volatiles effects on, *Nilaparvata lugens* 180.
role, chemoreceptors, *Epilachna varivestis* 807.
seaweeds, *Arbacia punctulata* 949.
- Food processing**, effects on orange juice flavor 331.
flavorings, food 718.
- Food selection**, olfactory discrimination, fluprazine hydrochloride effects on, rats 1383.
- Food sources**, attraction, role, chemical perception, *Cochliomyia hominivorax* 1296.
Ishige okamura, attractancy, feeding, *Helicoverpa* discus 558.
toxicity, olfactory stimuli, aposematism, *Deliphis virginiana* 655.
- Food spoilage**, odors, volatiles, development, beef 722.
- Foot**, chemoreception role feeding behavior, *Bullia digitalis* 1297.
- Foraging behavior**, chemical communication, *Trachymyrmex urichi* 546.
factors affecting, odors chemoreception, *Apis mellifera* 168.
flowers, olfactory stimuli, *Apis mellifera*, *Lotus corniculatus* 951.
olfactory stimuli, conditioning, volatiles, *Helianthus*, *Apis mellifera* 942.
recruitment, trail pheromone, *Paraponera clavata* 169.
volatilization, trail pheromone, effects on, *Solenopsis invicta* 1285.

Subject Index

- Forests**, sex pheromone, synthetic, attractancy, Lepidoptera 522.
- Formic acid**, chemotaxis, *Campylobacter concisus*, colonization, gingiva 870.
- Formicidae**, chemical communication 1286, evolution, chemical communication 1295, taste preferences 179, trail pheromone 1285.
- L-Formyl-methionyl-leucyl-phenylalanine**, leukocytes (neutrophilic) chemotaxis, computers assays, man 861.
- N-Formyl-methionyl-leucyl-phenylalanine**, activation, leukocytes (polymorphonuclear), chemotaxis, calcium, intracellular levels, extracellular levels 476, chemoreceptors, leukocytes (neutrophilic), chemotaxis 83, chemotactic factors, monocytes, leukocytes (granulocytic) 443, chemotaxis, leukocytes (neutrophilic), burns, man 439, chemotaxis, macrophages, mice 133, effects on leukocytes (polymorphonuclear) adherence endothelium cells, chemotaxis peptides, man 837, induction leukocytes (polymorphonuclear) chemotaxis inhibition, wheat germ agglutinins characterization 453, induction leukocytes (polymorphonuclear) chemotaxis, wheat germ agglutinins inhibition, man 458, leukocytes (neutrophilic), fibronectin, plasma, chemotactic factors 102, oxidation, chemiluminescence, leukocytes (granulocytic) 436, papastatin effects on chemotaxis, role receptors, leukocytes (neutrophilic), man 435, role chemotaxis, monensin effects on, leukocytes (granulocytic), man 95, role colitis, leukocytes (neutrophilic), rats, mice 1220.
- N-Formyl-methionyl-leucyl-phenylalanine receptors**, cell surface, methylation, chemotaxis, monocytes, macrophages 1205.
- N-Formyl-methionyl-leucyl-phenylalanyl-lysine receptors**, binding monocytes, man 68.
- N-Formyl-methionyl-phenylalanine receptors**, chemotaxis, leukocytes (neutrophilic), rats 77.
- N-Formyl-norleucyl-leucyl-phenylalanine**, role colitis, leukocytes (neutrophilic), rats, mice 1220.
- N-Formyl-peptides receptors**, plasma membranes, leukocytes (polymorphonuclear), man 1206.
- Fragrances**, essential oils, *Hyacinthus orientalis*, *Hyacinthus nonscriptus* 700, gas chromatography methodology, odor compounds 703, solvents 699.
- France**, population dynamics, dispersal, pheromone traps, *Choristoneura murinana* 963.
- Freezing**, effects on, flavor, freezing 1469, *Hyperglyphe porosa*, bacteria spoilage, organoleptic evaluation 325, off flavor, pork 337, *Petroselinum* volatiles 1470.
- Frontalin**, aggregation pheromone, attractancy, *Pinus ponderosa*, *Dendroctonus brevicornis* 570, attractancy bait, *Polygraphus* 191, olfactory perception, pheromones, enantiomers, *Dendroctonus pseudotsugae* 379.
- Frontalure**, pest control, attractants, *Dendroctonus frontalis* 1314.
- Fructose**, deterrents, oviposition, host plants, *Eurema hecabe* mandarina 139, oviposition stimulation, *Dacus tryoni* 507, saccharin mixtures, aspartame, acesulfame K comparison, taste panel evaluation 354.
- Fruit bodies**, *Agaricus bisporus*, taste discrimination, *Delidiphus virginiana* 269, preservatives, organoleptic evaluation, *Pleurotus sapidus* 324.
- Fruit juices**, centrifugation, pasteurization effects on volatiles, *Passiflora edulis* 333, Citrus, flavor debittering, nomilin acetyl-lyase activity, *Corynebacterium fascians* 323, Citrus, food processing effects on 331, flavorings, hexobarbital, chemical composition, alcoholic beverages, *Malus* 1409, grape juice, terpenes distribution, grapes 1064, grapefruit juice, volatiles, chemical composition, flavor 1054, high-performance liquid chromatography, aldehydes, ketones 1073.
- Fruits**, aroma compounds volatiles, ripening, *Vaccinium ashei* 287, chemical analysis, volatiles, *Carica candamarcensis pubescens* 297, chemical stimuli, oviposition, *Ceratitis capitata* 1253, Citrus, γ radiation effects on organoleptic evaluation 351, *Cocos nucifera*, desiccation, off flavor, chemical composition 336, flavor, *Carica papaya*, *Psidium guajava*, *Mangifera indica* 330, flavor compounds, chemical analysis, *Malus domestica* 715, flavor constituents, volatiles, *Sambucus nigra* 291, host plants, chemicals, regulation, reproduction, chemoreception, *Dacus oleae* 913, *Malus sylvestris*, aroma compounds volatiles chemical composition, alcohols effects on 279, odors, chemoreception, *Drosophilidae* 174, organoleptic evaluation, γ radiation effects on, *Prunus persica* 355, taste panel evaluation, *Lycopersicon esculentum* 1478, volatiles aroma compounds, *Psidium guajava* 278, volatiles, flavor constituents, *Carica pentagona* 686, yogurt, taste discrimination, man 343.
- Fugu pardalis**, facial nerve innervation, palate, projections, medulla oblongata 377.
- Fumibotrys fumalis**, attractancy, sex pheromone, calling behavior 504.
- Fungi**, hydroxylation, 2,6-lutidine, aroma compounds 302.
- Furanose**, sweetness receptors response, *Boettcherisca peregrina* 392.
- Fusarium poae**, odors, chemical composition, γ -lactones 678.
- Fusarium solani**, effects on zoospores chemotaxis, *Actinoplanes missouriensis* 875.
- Gadus morhua**, feeding behavior, phagostimulants, *Pandalus borealis* extracts 656.
- Gametes**, pheromones, chemistry, configurations, *Syringoderma phinneyi* 1226.
- Gammarus pulex**, chemoreception, pheromones 508.
- Gas chromatography**, aroma compounds, *Anethum graveolens* 1398, cheese flavor volatiles 280, detection, odors, water 1082, essential oils, *Pelargonium* 311, flavor compounds, chemical analysis, beer 1068, methodology, ethyl ether volatiles analysis 373, methodology, odor compounds, fragrances 703, oranges extracts, organoleptic evaluation 712, physicochemical properties, pheromones formulations, methodology, *Insecta* 1492, volatiles, *Capsicum annum* 299, volatiles, flavor compounds, fats, mutton 292, volatiles, malolactic fermentation, isolates, *Leuconostoc oenos*, wine 1053.
- GDP**, effects on chemotaxis cyclic AMP receptors, *Dictyostelium discoideum* 490.
- Gekko gekko**, olfactory bulb, mitral cells, evoked potentials, olfactory stimuli, drugs effects on 1133.
- Gelechiidae**, sex pheromone, pheromone traps, attractancy 602.
- Gels**, pectin, organoleptic evaluation, man 1482.
- Gene expression**, cloning, platelet-derived growth factor genes, *Saccharomyces cerevisiae*, induction, chemotaxis, 3T3 cells, man 495.
- Gene frequency**, population genetics, taste perception deficiency, phenylthiourea, man, Jordan 418.
- Gene mapping**, mutants, taste perception, *Drosophila melanogaster* 391.
- Gene regulation**, macrophages chemotaxis, mice 456, scent marking behavior, habitat marking, *Drosophila melanogaster*, *Drosophila simulans* 610.
- Genes**, chemoreceptors proteins, *Salmonella typhimurium* 135, chemotaxis, nucleotide sequence, proteins, amino acid sequence predictions, *Escherichia coli* 480, platelet-derived growth factor, cloning, gene expression, *Saccharomyces cerevisiae*, induction, chemotaxis, 3T3 cells 495, tar gene, *Escherichia coli*, chemotaxis receptors, mutants, characterization, phenotypes 1230.
- Genital tract**, males, isolation, sex pheromone, attractancy, females, *Musca domestica* 500, odors, production, *Mammalia* 272.
- Genitalia**, release sites, aggregation pheromone, *Argas walkerae* 423.
- Geometridae**, sex pheromone, attractancy, nonadecadiene 597, sex pheromone, pheromone traps, attractancy 602.
- Geranium macrorrhizum**, essential oils, perfumes 694.
- Gerbils**, social rank, relationship, conspecific odors detection, males 263.
- Germany, Fed. Rep., Hartheim**, host selection, colonization, role semiochemicals, *Pinus sylvestris*, *Tomicus piniperda* 1279.
- Ghee**, flavor, *Streptococcus lactis* diacetyl/lactis dairy starters effects on 367, hydrogen peroxide effects on flavor, rancidity 729.
- Gingivae**, colonization, *Campylobacter concisus*, chemotaxis, formic acid 870, inflammatory diseases, chemotaxis, leukocytes (polymorphonuclear), man 110.
- Glands**, anus, atrophy, social environment, conspecific odors, *Microtus agrestis* 1190, anus, secretions chemical composition, *Mustela erminea*, *Mustela putorius* 661, production, odors, *Mammalia* 272, sex pheromone, chemical composition, identification, characterization, *Sabalodes caberata* 1260.
- Gliochrochilus quadrigatus**, attractants, efficacy, butyl acetate 184, semiochemicals, attractancy, traps design 1283.
- Glossina**, traps, bait, attractancy, 1-octen-3-ol, acetone, carbon dioxide 198.
- Glossina morsitans**, anemotaxis, chemotaxis, flight activity, host location 571.
- Glossina morsitans morsitans**, attractants, olfactory stimuli, 1-octen-3-ol, acetone, carbon dioxide, *Glossina pallidipes* 172, chemoreception, sex pheromone, electroantennograms 755, sex pheromone 145, 19, 23-trimethylheptatriacetonane, synthesis 672.
- Glossina pallidipes**, anemotaxis, chemotaxis, flight activity, host location 571, attractants, olfactory stimuli, 1-octen-3-ol, acetone, carbon dioxide 172, attractants, phenols, kairomones, urine, *Synceus calfer* 967, bait, urine, attractancy, cattle, buffaloes 192.
- Glucocorticoids**, effects on leukocytes chemotaxis, dogs 452, immunosuppression chemotaxis, leukocytes (neutrophilic) 70.
- Glucose**, anomers, effects on insulin release, taste perception, role brain stem, man 1477, effects on sex pheromone biosynthesis, fat body, *Anthonomus grandis* 1248.
- Glucose metabolism**, hypothalamus (lateral), females odors effects on males rats 221.
- Glutamate decarboxylase**, immunogenicity localization, neurons, periglomerular region, olfactory bulb, rats 59.
- Glutamic acid**, desensitization, cortex (olfactory), rats 1180, roots exudates, zoospores chemotaxis, *Phytophthora cinnamomi*, disease resistance.

- Glutamic acid, (continued)**
susceptibility, *Vitis vinifera* 1231.
- Glutamine**,
stimulation, effects on unit activity, olfactory bulb, *Triturus cristatus* 762.
- Glycine max**,
beans, fermentation, *Streptococcus lactis* starter cultures, flavor, cheese substitutes 721.
beans, fermentation, *Streptococcus lactis* starter cultures, flavor, cheese substitutes 1461.
- Glycoalkaloids**,
organoleptic evaluation, potatoes 1115.
- Glycoproteins**,
polarization, role monocytes chemotaxis, cell membranes 99.
- Gnathotrichus materialis**,
pheromone traps, *Larix kaempferi*, biological control, *Ips cembrae* 1320.
- Goats**,
luteinizing hormone secretion, ovulation, estrus behavior, olfactory stimuli 1354.
meat, organoleptic evaluation, fats levels 361.
selenium deficiency role leukocytes (polymorphonuclear) chemotaxis 838.
- Gortyna xanthenea**,
pheromone traps, attractancy 1315.
sex pheromone, attractancy, pest control 904.
- Gossypium hirsutum**,
pest control, pheromone traps, *Pectinophora gossypiella*, India 1277.
- Gossypure**,
efficacy, pest control, disruption, mating, *Pectinophora gossypiella* 589.
7,11-hexadecadienyl acetate, sex pheromone, response, interference, gossypure alcohol, *Pectinophora gossypiella* 535.
sex pheromone synthesis, *Pectinophora gossypiella* 276.
- Gossypure alcohol**,
7,11-hexadecadienol, interference, sex pheromone response, gossypure, *Pectinophora gossypiella* 535.
- Gracillariidae**,
sex pheromone, pheromone traps, attractancy 602.
- Grain**,
pheromone traps, monitoring, population levels, *Cryptolestes ferrugineus* 609.
- Gram-negative bacteria**,
periplasmic space, binding proteins, tertiary structure, stereospecificity, active transport, chemotaxis 868.
- Grandisai**,
aggregation pheromone, interspecific attractancy, *Pissodes strobi*, *Pissodes approximatus*, *Pissodes nemorensis* 1301.
- Grandisai**,
aggregation pheromone, interspecific attractancy, *Pissodes strobi*, *Pissodes approximatus*, *Pissodes nemorensis* 1301.
- Grandiura**,
aggregation pheromone, orientation, *Anthonomus grandis* 576.
pheromone traps, pest control, *Anthonomus grandis*, USA 958.
- Grape juice**,
terpenes distribution, grapes 1064.
- Grapefruit juice**,
volatiles, chemical composition, flavor 1054.
- Grapes**,
aroma compounds, terpenoids, aromatic alcohols 1056.
chemical analysis, monoterpene ethyl ether, wine 295.
decay control, sodium metabisulfite methodology, *Vitis vinifera* 1119.
terpenes distribution, skin, grape juice 1064.
- Grapholita molesta**,
chemical composition, pheromones synthesis 274.
orientation, sex pheromone, flight activity, olfactory perception 143.
pheromone traps, catches, relationship, dispersal 594.
sex pheromone, attractancy, males 911.
- Gromphadorhina portentosa**,
olfactory stimuli, differentiation, conspecific odors, relationship, courtship 517.
- GTP**,
effects on chemotaxis cyclic AMP receptors, *Dictyostelium discoideum* 490.
- GTP-binding protein**,
odors activation adenylate cyclase, olfactory nerve, cell membranes 429.
regulation, chemotaxis, platelet-activating factor, calcium flux, leukocytes (neutrophilic), man 472.
- Guanine**,
identification, aggregation pheromone, Argasidae, Ixodidae 553.
regulatory protein effects on monocytes response, chemotactic factors, man 863.
- Guavae**,
flavor 330.
volatiles, aroma compounds 278.
- Guinea-pigs**,
cortex (olfactory), neurons, calcium currents, kinetics 9.
sensilla, macrophages chemotaxis 962.
Strongyloides ratti larvae effects on leukocytes (neutrophilic), release, leukocytes (eosinophilic), chemotactic factors 1213.
vomeronasal organs ablation effects on response, urine odors, conspecifics, males 232.
- Gulo gulo**,
body odors effects on feeding behavior, predator-prey interactions, *Lepus americanus* 1026.
- Gustatory stimuli**,
amino acids, association, feeding behavior, *Periplaneta americana* 575.
sensilla, ultrastructure, *Calliphora vicina*, *Yponomeuta* 43.
taste, chemoreceptors, distribution, papillae, tongue, *Rana catesbeiana* 1144.
- Gut**,
lymphoid tissue, chemotaxis lymphocytes B, immunoglobulin A, milk, mice 836.
- Gymnemic acid**,
effects on chorda tympani nerves, responsiveness taste stimuli, *Pan troglodytes* 17.
- Habitat**,
marking, gene regulation, scent marking behavior, *Drosophila melanogaster*, *Drosophila simulans* 610.
- Habituation**,
olfactory perception, visual perception, exploratory behavior, rats 1386.
taste adaptations, man 790.
- Hadeninae**,
olfactory perception, sex pheromone, electroantennograms 147.
sex pheromone, taxonomic significance, chemical composition 923.
- Haletinae**,
Dufour's gland, secretions, chemical composition, chemoreception, kin recognition 620.
- Haliotis discus**,
attractants, activity, Ishige okamura extracts, *Haliotis discus* 950.
feeding, attractancy, food sources, Ishige okamura 556.
- Hamsters**,
mate selection, females discrimination, urine odors, dominance, males 1008.
mate selection relationship scent marking behavior 220.
nicotine induction, taste aversion learning, saccharin 1375.
scent marking behavior, vagina, females, role, distance, males 631.
sexual behavior, males, body odors females effects on 1363.
vagina secretions, odor perception effects on males sexual behavior 1357.
vasopressin, arginine- injection, hypothalamus (anterior), preoptic area, induction, scent marking behavior, role, scent gland 1370.
vomeronasal organ removal effects on lordosis behavior, females 1355.
vomeronasal organ role olfactory perception, odors vagina, males 14.
vomeronasal organs ablation effects on lordosis behavior, reversal, luteinizing hormone-releasing hormone, females 997.
- Handling**,
activation, defensive behavior, rats 1367.
- Haptoglobin**,
role macrophages chemotaxis modulation 831.
- Harderian gland**,
role, conspecific odors control, maze learning, rats 1376.
- Harrisiana americana**,
attractancy, pheromones, isomers, 2-butyl-(Z)-7-tetradecanoate 1342.
- Harrisiana brilliana**,
sex pheromone, chemical composition, attractancy 137.
- Haunting behavior**,
role, hosts chemical stimuli, Nematoda 1348.
- Head**,
bioassays, cues, recognition, mating behavior, *Belonogaster petiolata* 912.
- Heart**,
chemotactic factors, characterization, leukocytes (mononuclear), *Papio cynocephalus* 466.
+ lung bypass, immunosuppression leukocytes (neutrophilic) chemotaxis, man 108.
- Heat treatments**,
effects on cream, organoleptic properties 370.
effects on volatiles, mangoes, *Mangifera indica* 296.
- Heating**,
organoleptic properties, fish 347.
- Heavy metals**,
inhibition, taste perception, chorda tympani nerves, mice 18.
neurotoxicity, effects on, olfaction, *Oncorhynchus kisutch* 760.
- Hedera helix**,
plant extracts, antifeedants, bioassays, *Melanotus communis* 163.
- Heliathus**,
volatiles, olfactory stimuli, foraging behavior, conditioning, *Apis mellifera* 942.
- Heliopsis**,
antifeedants, plant extracts, *Vismia* 561.
- Heliopsis amigeri**,
kairomones, host plants, pest resistance, oviposition, *Cajanus cajan* 166.
pheromone traps, attractancy 1315.
pheromones, affinity, biosensor, *Vibrio harveyi*, *Vibrio fischeri* alkalane monooxygenase (FMN-linked) 1238.
- Heliopsis phloxiphaga**,
sex pheromone, characterization, males response components 1267.
- Heliopsis virescens**,
mating disruption, sex pheromone analogs 1249.
pheromones, metabolism 892.
sex pheromone, biosynthesis 889.
sex pheromone, chemical analysis, orientation 537.
- Heliopsis zea**,
secretory products, kairomones, stimulation, host selection, *Trichoplusia ni*, *Microplitis demolitor* 992.
pheromone traps, integrated control, *Lycopersicon esculentum*, USA, California 1321.
sex pheromone, biosynthesis 889.
sex pheromone levels, diel periodicity, relationship mating, age 158.
- Hemodialysis**,
chemotactic factors, leukocytes (polymorphonuclear), complement component C5a activation, man 1209.
hydroxyapatite crystals, arthritis, leukocytes (neutrophilic) chemotaxis, inflammation, man 30.
- α-Hemolysin**,
leukocytes (neutrophilic), chemotaxis, *Escherichia coli*, infection 1219.
- (Z)-11-Heptadecenyl acetate**,
sex pheromone, *Mamestra brassicae* 985.
- Heterotrophic bacteria**,
digestion (aerobic), odor control, animal wastes 1423.
- 7,11-Hexadecadienol**,
gossypure alcohol, interference, sex pheromone response, gossypure, *Pectinophora gossypiella* 535.
- 7,11-Hexadecadienyl acetate**,
gossypure, sex pheromone, response, interference, gossypure alcohol, *Pectinophora gossypiella* 535.
- (Z)-11-Hexadecanal**,
sex pheromone, release, reproductive isolation, *Platyptilia carduidactyla*, *Platyptilia williamsii* 152.
- (E)-11-Hexadecen-1-ol**,
sex pheromone, isolation, characterization, attractancy, *Sceliodon cordalis* 1262.
- (E)-11-Hexadecen-1-yl**,
sex pheromone, isolation, characterization, attractancy, *Sceliodon cordalis* 1262.
- Hexadecenyl acetate**,
sex pheromone, *Mamestra brassicae* 985.
- (E)-11-Hexadecenyl acetate**,
sex pheromone, *Mamestra brassicae* 985.
- (Z)-9-Hexadecenyl acetate**,
sex pheromone, *Mamestra brassicae* 985.
- Z-11-Hexadecenyl acetate**,
sex pheromone, identification, *Dioryctria amatella* 881.

Subject Index

- (E)-2-Hexenal, sex pheromone, relationship, calling behavior, *Antheraea polyphemus* 499.
- (E)-2-Hexenol, defense secretions, scent gland, repellency, *Hotea gambia* 614.
- Hexobarbital**, flavorings chemical composition, fruit juices, alcoholic beverages, *Malus* 1409.
- High-performance liquid chromatography**, aging effects on Cheddar cheese chemical composition 1069.
- aldehydes + ketones, wine, fruit juices, vegetables juices 1073.
- methodology, essential oils 1078.
- High-pressure liquid chromatography**, phenols flavor compounds chemical composition, wine 306.
- Hindbrain**, olfactory bulb projections, electrophysiology characterization, *Squalus acanthias* 765.
- Hippocampus**, lesions, disruption, taste aversion learning, odor aversion learning, rats 645.
- Histocompatibility locus H-2**, urine, olfactory perception, effects on reproductive behavior, mice 626.
- Hodgkin's disease**, leukocytes (polymorphonuclear), chemotaxis 433.
- Holomelina aurantiaca**, calling behavior, sex pheromone 541.
- Holomelina lamae**, calling behavior, sex pheromone 541.
- temperature, photoperiod, effects on calling behavior, pheromone emission 921.
- Homarus americanus**, feeding behavior, taste receptors activity, characterization 775.
- Home range**, scent marking behavior, feces, *Apodemus sylvaticus* 241.
- Homing behavior**, morpholine, olfactory stimuli, *Oncorhynchus kisutch*, USA, Oregon, Salmon R. 659.
- olfactory stimuli deprivation + visual deprivation effects on, pigeons 1391.
- olfactory stimuli effects on range, pigeons 1392.
- role, magnetic fields, olfactory stimuli, pigeons, reviews 1393.
- role, olfactory stimuli, pigeons 1385.
- Homone magnanima**, females, calling behavior, sex pheromone, conspecific odors effects on 519.
- synthetic sex pheromone attractancy, Taiwan 1275.
- Hops**, distillation methodology effects on aroma compounds, beer 713.
- effects on beer flavor 1065.
- essential oils, aroma compounds, beer 298.
- essential oils extraction, solid phase methods 688.
- Hordeum vulgare**, peptidase, proteinase, cheese ripening, cheese flavor, off flavor 1466.
- Hormones**, host searching behavior, regulation, chemoreceptors, *Aedes aegypti* 550.
- levels, relationship, volatiles, urine odors, chemical communication, *Mus musculus* 1004.
- ovary, role estrus pheromones regulation, chemical communication, mice 995.
- Hormotrene**, spermatozoa, Phaeophyta, Australia 1227.
- Horse**, scanning electron microscopy, papillae, morphology, taste 1198.
- peripheral blood, blood uterus, leukocytes (polymorphonuclear), chemotaxis 78.
- Host location**, anemotaxis, chemotaxis, flight activity, *Glossina pallidipes*, *Glossina morsitans* 571.
- Host plants**, attractancy, kairomones, pheromones, *Ulmus americana*, *Hyurgopinus rufipes*, *Scolytus multistriatus* 941.
- chemical perception, oviposition, attractancy, *Allium cepa*, *Allium porrum*, *Acrotopsis assectella* 1234.
- chemicals, deterrents, oviposition, host selection, *Eurema hecabe mandarina* 139.
- chemicals, factors affecting oviposition, *Delia antiqua* 617.
- fruits, chemicals, regulation, reproduction, chemoreception, *Dacus oleae* 913.
- odors, plumes, relationship, flight activity, anemotaxis, allylthiocyanate, *Delia radicum* 559.
- orientation, olfactory stimuli, *Solanum tuberosum*, *Leptinotarsa decemlineata* 1129.
- pest resistance, kairomones, oviposition, *Cajanus cajan*, *Heliothis armigera* 166.
- toxins, palatability, *Anolis*, *Bufo*, *Neocoryphus bicrucis* 266.
- volatiles, attractancy, traps, catches, *Pinus sylvestris*, *Hyllobius abietis* 1293.
- volatiles, effects on response, aggregation pheromone, *Scolytidae* 574.
- volatiles, orientation, olfactory stimuli, *Pinus sylvestris*, *Hyllobius abietis* 1303.
- volatiles, role, aggregation behavior, *Hyllobius abietis* 1307.
- Host searching behavior**, diets effects on, kairomone, *Amblyseius potentillae* 1305.
- kairomones, arrestants effects on, *Apanteles kariyai* 931.
- kairomones, hosts, secretions, *Pseudaletia separata*, *Apanteles kariyai* 556.
- olfactory stimuli, *Biosteres longicaudatus*, *Opisus concolor*, *Trybliographa* 1299.
- pheromones, *Diadromus pulchellus* 334.
- regulation, chemoreceptors, hormones, *Aedes aegypti* 550.
- role, hosts chemical stimuli, *Nematoda* 1348.
- stimulation, *Lycopodium obscurum* volatiles, *Trichogramma pretiosum* 899.
- stimuli, *Diatraea saccharalis*, *Cotesia flavipes* 567.
- Host selection**, colonization, role semiochemicals, monoterpene hydrocarbons, *Pinus sylvestris*, *Tomus piniperda*, Germany, Fed. Rep., Hartheim 1279.
- kairomones, *Diapriidae* extracts, *Aphytis*, *Comperiella* 993.
- oviposition, host plants, deterrents, chemicals, *Eurema hecabe mandarina* 139.
- stimulation, excretory products, kairomones, *Heliothis zea*, *Trichoplusia ni*, *Microplitis demolitor* 992.
- superparasitism, Dufour's gland secretions, pheromones, *Nemeritis canescens* 902.
- Host-parasite interactions**, stimuli, host searching behavior, *Diatraea saccharalis*, *Cotesia flavipes* 567.
- Hosts**, chemical stimuli, role, host searching behavior, hatching behavior, *Nematoda* 1348.
- odors, flight activity response, *Stomoxys calcitrans* 177.
- recognition, kairomones, *Diapriidae* extracts, *Aphytis*, *Comperiella* 993.
- secretions, kairomones, host searching behavior, *Pseudaletia separata*, *Apanteles kariyai* (continued) kariyai 556.
- Hotea gambia**, scent gland, defense secretions, (E)-2-hexenol, repellency 614.
- Huddling**, role, mother-offspring interactions induction, olfactory preferences, juveniles, rats 227.
- Hunger**, stimulation ethanol taste preferences, rats 650.
- Hunting**, females odors effects on 237.
- Hyacinthus nonscriptus**, essential oils, fragrances 700.
- Hyacinthus orientalis**, essential oils, fragrances 700.
- Hybridization**, effects on, periodicity, sex pheromone, release, *Euxoa declarata*, *Euxoa rockburnei* 525.
- Hybridoma**, lymphocytes T, chemotactic factors production, biochemical characteristics, man 471.
- Hydra japonica**, feeding behavior, chemoreception, lectins 1271.
- Hydracella micacea**, sex pheromone, chemical composition, attractancy, monitoring, population levels 628.
- Hydrocarbons**, cuticular, conspecific odors, role, kin recognition, *Solenopsis invicta* 1347.
- sex pheromone, *Cladostephus* 1255.
- Hydrogen peroxide**, deodorization, fermentation, *Manihot esculenta* 320.
- effects on flavor, rancidity, ghee 729.
- leukocytes (neutrophilic) chemotaxis induction, complement component C5a, serum, man 462.
- Hydrogen sulfide**, pollution control, odors, sewage treatment, water quality 1459.
- Hydrogenation**, effects on flavor, soybean oil 1468.
- Hydrophobicity**, bitterness, taste, L-amino acids 684.
- 2-Hydroxy-3,4-dimethyl-2-buten-4-olide**, flavor compounds, *Angelica dahurica* 687.
- 5-Hydroxy-4-methyl-3-heptanone**, aggregation pheromone, chemical composition, *Sitophilus oryzae*, *Sitophilus zeamais* 565.
- 3-Hydroxy-4,5-dimethyl-2-(5H)-furanone**, volatiles, tobacco 1061.
- Hydroxyalkenals**, effects on chemotaxis, leukocytes (neutrophilic), rats 73.
- Hydroxyapatite**, crystals, arthritis, leukocytes (neutrophilic) chemotaxis, inflammation, hemodialysis, man 30.
- Hylemya antiqua**, phagostimulants, sugars, *Allium cepa* 554.
- Hyllobius abietis**, aggregation behavior, role, host plants volatiles 1307.
- host plants, volatiles, attractancy, traps catches, *Pinus sylvestris* 1293.
- orientation, olfactory stimuli, host plants volatiles, *Pinus sylvestris* 1303.
- sex pheromone, chemical composition 1239.
- Hyllobius pales**, attractancy, bait, turpentine 197.
- Hyurgopinus rufipes**, host plants, attractancy, pheromones, chemical composition, *Ulmus americana* 941.
- Hyurgopinus palliatus**, chemical communication, pheromone traps, attractancy 144.
- Hyperglycemia**, freezing, bacteria spoilage, organoleptic evaluation 325.
- Hyperoxia**, effects on macrophages chemotactic agents, lung, rats 79.
- Hyphantria cunea**, sex pheromone, effects on flight activity, mating behavior 1244.
- Hypothalamus (anterior)**, vasopressin, arginine injection, induction, scent marking behavior, role, scent gland, hamsters 1370.
- Hypothalamus (lateral)**, ESB effects on olfactory tubercle unit activity, rats 13.
- glucose metabolism, females odors males rats 221.
- Hypoxia**, effects on cells, morphology, carotid body, cats 1156.
- effects on taste aversion learning, rats 254.
- stimulation, dopamine biosynthesis, release, carotid body, cats 784.
- Hyrcoidae**, olfaction, role, social behavior, scent gland, anatomy 247.
- Hyasopis officinalis**, chromatography, essential oils 1415.
- Hystricomorpha**, olfaction, role, social behavior, scent gland, anatomy 250.
- Ichthyophis**, taste buds, morphology, distribution, larvae 1185.
- Ictialurus punctatus**, amino acids receptors, electrophysiology, olfactory organs 8.
- seasonal variations, taste panel evaluation 1465.
- Immobilized cells**, propionic acid bacteria, propionic acid starter cultures, cheese flavor production 327.
- Immune system**, leukocytes (neutrophilic) chemotaxis inhibition, venom, *Loxosceles reclusa* 1210.
- Immunodeficiency**, immunoglobulin A, monocytes, chemotaxis defects, man 412.
- Immunoglobulin A**, chemotaxis lymphocytes B, gut lymphoid tissue, milk, mice 836.
- immunodeficiency, monocytes, chemotaxis defects, man 412.

- Immunoglobulins**,
inhibition chemotaxis, leukocytes (polymorphonuclear), monocytes, man 81.
- Immunostimulation**,
levamisole, leukocytes (neutrophilic) chemotaxis, man 463.
- Immunosuppression**,
zinc nutrient deficiency, leukocytes, chemotaxis, man 478.
- Implantation**,
pheromones blocking, prolactin enhancement effects on, mice 1358.
- Implants**,
testosterone, effects on pork odors, boar taints 1473.
- Imprinting**,
females, preputial gland secretion odors, males, mice 216.
olfaction, correlation, predatory behavior, *Mustela furo* 1581.
prey odors, olfactory bulb morphology, *Mustela furo* 1179.
prey odors, relationship, maturation, olfactory bulb, *Mustela putorius* 1027.
- India**,
pheromone traps, *Pectinophora gossypiella*, pest control, *Gossypium hirsutum* 1277.
- Industrial effluents**,
paper industry, organoleptic evaluation, odors, drinking water 322.
thermodynamics, physicochemical properties, aroma compounds, solvents 1404.
- Industries**,
effects on olfaction, man 1157.
- Infants**,
chemoreceptors, man 1155.
taste perception, diets, man 29.
- Infection**,
pheromone traps, *Olea europaea*, *Prays oleae* 976.
- Inflammation**,
effects on chemotaxis, leukocytes (neutrophilic) 857.
fibroblasts, chemotactic factors, complement component C5a, cattle 496.
leukocytes (neutrophilic) chemotaxis, hydroxyapatite crystals, arthritis, hemodialysis, man 30.
lung, leukocytes (neutrophilic), chemotactic factors, macrophages activation, asbestos, chronic effects, sheep 31.
mediators, chemotaxis, leukocytes, *Pleuronectes platessa* 1222.
siles, leukocytes, effects on, leukocyte adherence, chemotaxis, man 1218.
- Inflammatory bowel diseases**,
complement, chemotactic factors, leukocytes (neutrophilic), man 87.
- Inflammatory diseases**,
gingiva, chemotaxis, leukocytes (polymorphonuclear), man 110.
- Ingestion**,
conspecifics, hosts chemical stimuli effects on, *Nematode* 1263.
taste solutions, taste buds denervation effects on, rats 1028.
- Inheritance**,
role taste, mice 780.
- Inosine**,
binding taste buds, effects on feeding behavior, *Scophthalmus maximus* 1151.
- Insecta**,
alkaloids, ingestion, use, biosynthesis sex pheromone 1242.
antennae, chemoreceptors, structure-activity relationships, pheromones 994.
antifeedants, structure-activity relationships, synthesis 173.
attractancy, synthetic sex pheromone, sunlight effects on release 590.
chemical communication, pheromones, biochemistry 886.
chemical composition, defense secretions, pheromones 207.
conferences, pest control, pheromones, tropical environment 1123.
developmental stages, chemoreceptors, peripheral nerves, reviews 382.
juvenile hormones synthesis 669.
olfactory pathways, development, sexual dimorphism, reviews 801.
pest control, antifeedants, pheromones, biosynthesis, plant breeding, crops 943.
pest control, use, sex pheromone, conferences 375.
pheromone traps, attractancy, mathematical models 955.
pheromone traps, sex pheromone 605.
pheromones, controlled release, kinetics, biological control 182.
pheromones, formulations, physicochemical properties, gas chromatography, methodology 1492.
pheromones, pest control, tropical environment 956.
pheromones plumes, quantitation, horizontal coverage 204.
pheromones release, controlled release, biological control 183.
pheromones, synthesis, chirality 273.
pitfall traps, bait, methodology 189.
- Insecticides**,
+pheromone traps, monitoring, population levels, *Lepidoptera* 987.
- Insectivora**,
olfaction, role, social behavior, scent gland, anatomy 244.
- Inulin**,
glucose anomers effects on release, brain stem role taste perception, man 1477.
- Integrated control**,
pest control, mating disruption, sex pheromone release, *Dacus oleae* 975.
pesticide applications, sex pheromone, pheromone traps, *Bacillus thuringiensis*, vineyards, *Lobesia botrana*, Italy, Lazio 195.
pheromone traps, *Dacus oleae*, *Ceratitis capitata*, *Sardinia* 1328.
pheromone traps, *Lycopersicon esculentum*, *Heliothis zea*, USA, California 1321.
pheromone traps, sex pheromone, +insecticides, *Dacus oleae* 1333.
pheromone traps, *Spodoptera littoralis*, Israel 953.
sex pheromone, disruption, mating, *Dacus oleae* 1329.
use, pheromones, *Zettaphera*, Canada 1317.
- Interleukin 1**,
synovial fluid, role, lymphocytes chemotaxis, rheumatoid arthritis, man 796.
- Interneurons**,
efferent, optic nerve, response chemoreception, *Orconectes virilis* 1126.
- Invertebrates**,
marine environment, chemical stimuli, structure-activity relationships, sexual reproduction, settling behavior, metamorphosis 1235.
olfactory perception, pheromones, chemical communication 619.
- Ipomoea batatas**,
sweet potatoes, chemical composition, volatiles, aroma compounds 293.
taste panel evaluation, plant breeding 738.
- Ips acuminatus**,
sex pheromone, inhibition, attractancy, *Ips sexdentatus* 1237.
- Ips cembrae**,
biological control, pheromone traps, *Gnathotrichus materiarius*, *Larix kaempferi* 1320.
- Ips pini**,
chirality, pheromones 524.
- Ips sexdentatus**,
sex pheromone, attractancy, inhibition, *Ips acuminatus* 1237.
- Ips typographus**,
aggregation pheromone effects on walking, pest attack, *Picea abies* 1292.
attractancy, synthetic pheromones, *Picea abies* forest residues 945.
biological control, pheromone traps, catches, species composition 1319.
flight activity, attractants effects on, pheromone 572.
flight activity, relationship, pheromone traps 608.
olfactory system, chemoreceptors, cells electrophysiology characterization, pheromones 376.
pest status, monitoring, pest control, aggregation pheromone, pheromone traps, Europe 962.
- Ispidienol**,
aggregation pheromone, biosynthesis, sex differences, myrcene exposure, *Dendroctonus ponderosae* 1300.
- Iridomyrmex humilis**,
recruitment, trail following behavior 932.
- Ishige okamurae**,
extracts, activity, attractants, *Haliothis* discus 950.
food sources, attractancy, feeding, *Haliothis* discus 558.
- Iso-octyl 2,4-dichlorophenoxyacetate**,
taste aversion learning, food intake, azadirin, *Peophila guttata castanotis* 653.
- 2-Isobutyl-3-methoxyxypyrizine receptors**,
binding epithelium, olfactory bulb, kinetics, rats 47.
- 2-Isobutyl-3-methoxyxypyrizine-binding protein**,
purification, characterization, nose, cattle 49.
- Isoflavonoids**,
antifeedants, structure-activity relationships, *Costelytra zealandica* 569.
- Isopatchoul-3-ene**,
structure, essential oils, *Cyperus scarious* 310.
- Isotarsus**,
antifeedants, association regurgitation, minerals 181.
- Jordan**,
taste perception deficiency, phenylthiourea, population genetics, gene frequency, man 418.
- Julices**,
vegetables, high-performance liquid chromatography, aldehydes, ketones 1073.
- Juniperus communis**,
oils, volatiles, chemical composition 675.
- Juvenile hormones**,
synthesis, *Insecta* 669.
- Juveniles**,
mother-offspring interactions induction, olfactory preferences, role, huddling, rats 227.
- Kairomones**,
arrestants, effects on host searching behavior, isolation, characterization, *Apanteles kariyai* 931.
attractants, phenols, urine, *Syncerus caffer*, *Glossina pallidipes* 967.
bioassays, recognition, *Nezara viridula* eggs, *Trissolcus basalis* 149.
chemical composition, attractancy, host plants, *Ulmus americana*, *Hyurgopinus rufipes*, *Scolytus multistriatus* 941.
Diapsididae extracts, hosts recognition, host selection, *Aphytis*, *Comperiella* 253.
effects on parasitism, biological control, *Choristoneura fumiferana*, *Trichogramma minutum*, USA, Maine 1316.
electroantennograms, *Dendroctonus ponderosae* 1258.
host plants, pest resistance, oviposition, *Cajanus cajan*, *Heliothis amigeri* 166.
host searching behavior, hosts, secretions, *Pseudaletia separata*, *Apanteles kariyai* 556.
oviposition, deterrents, pheromones, *Pieris rapae*, *Pieris brassicae* 896.
predatory behavior, *Nevertia didyma* 1288.
response, parasitoids, scales, *Lepidoptera*, *Chelonus* 935.
stimulation, host selection, excretory products, *Heliothis zea*, *Trichoplusia ni*, *Microplitis demolitor* 992.
- Kefir**,
fermentation, flavor, aroma 334.
- Keratinocytes**,
leukotriene B4 production, man 470.
thymocyte-activating factor, production, chemotactic factors, lymphocytes T, epidermis 464.
- Ketones**,
high-performance liquid chromatography, wine, fruit juices, vegetables juices 1073.
- Kidney**,
pollutants effects on chemotactic response, macrophages, *Pisces* 1212.
- Kidney transplantation**,
effects on taste acuity, uremia, man 414.
- Kin recognition**,
chemical communication, *Trachymyrmex urichi* 546.
chemoreception, *Dufour's* gland secretions, *Halictus* 620.
identification, macrocyclic lactones, *Dufour's* gland, *Lasiglossum zephyrum* 511.
mother, role norepinephrine containing efferent pathway, olfactory bulb, sheep 229.
role, cuticle hydrocarbons, environmental factors, *Solenopsis invicta* 1347.
- Kiwifruit**,
aroma compounds volatiles, ripening, storage, maturity effects on 281.
- Klinotaxis**,
measuring techniques, computer applications, *Caenorhabditis elegans* 742.
- Labial palpe**,
chemoreceptors, sensilla, ultrastructure, *Pieris rapae* 380.
sense organs, carbon dioxide chemoreceptors, physiology, ultrastructure, innervation, *Rhodogastria* 1169.
- Lacertilla**,
taste buds, tongue, mouth epithelium, distribution, occurrence, function 400.
- Lactation**,
urine odors, long-term effects, locomotor activity, females, mice 657.
- Lactic acid**,
chemoreception, structure-activity relationships, *Marthasterias glacialis* 378.

Subject Index

- Lactic acid bacteria**, dairy starters, diacetyl production, flavor compounds, pH, temperature effects on 1462.
sorbic alcohol production, wine odors 728.
- Lactobacillus**, role taints, tetrahydropteridines, wine 1092.
spillage, odors, vacuum packaging, fishery products, Salmonidae 1091.
- Lactobacillus helveticus**, aroma compounds biosynthesis, isolation, cheese 673.
- Lactones**, odors, chemical composition, *Fusarium poae* 678.
- Lakes**, odor pollution, 2-methylisobornol, *Phormidium tenue* 708.
odors, microbial pollution 1061.
- Lamellae**, plant extracts, effects on, feeding, oviposition 928.
- Larix kaempferi**, biological control, ips cembrae, pheromone traps, *Gnathotrichus materiarius* 1320.
- Larvae**, *Ancylostoma caninum*, chemotaxis, dogs serum chemotactic agents 134.
chemotactic factors, leukocytes (neutrophilic), *Oesophagostomum auleatum* 848.
oviposition, inhibition, biological control, *Acanthoscelides obtectus*, *Leguminosae* 1311.
pheromones effects on development 968.
population density, synthetic sex pheromone, pheromone traps, *Rhyacionia buoliana*, *Pinus sylvestris* 925.
Strongyloides 431 effects on leukocytes (neutrophilic), release, leukocytes (eosinophilic), chemotactic factors, guinea-pigs 1213.
taste buds, morphology, distribution, litchyopsis 1185.
- Lasioderma serricorne**, oviposition, pheromones analogs effects on 895.
pheromones, antagonists, effects on mating behavior, aggregation behavior 919.
sex pheromone, anhydrosericin, males, activity 545.
sex pheromone, serricornin activity, inhibition, isomers 543.
4S, 6S, 7S-serricornin, sex pheromone antagonists, mating behavior 1245.
- LasioGLOSSUM zephyrum**, sex pheromone, kin recognition, identification, macrocyclic lactones, Dufour's gland 511.
- Learning behavior**, flavor compounds, taste perception, rats 649.
motivation, cues, taste perception 648.
- Leaves**, canning effects on organoleptic properties, *Vigna unguiculata* 366.
essential oils production, chemical composition, olfactory properties, *Rosmarinus officinalis* 693.
- Leclina**, chemoreception, feeding behavior, *Hydra japonica* 1271.
- Leg**, chemoreception, electrophysiology, deterrents, oviposition, *Pieris brassicae* 804.
sensilla, chemoreception, bioassays, food preferences, *Chilo partellus* 2.
ultrastructure, innervation, sensilla, olfactory organs, *Rhyzoglyphus robini* 811.
- Leguminosae**, biological control, inhibition larvae, oviposition, *Acanthoscelides obtectus* 1311.
- Lepersinus varius**, chemical communication, pheromone traps, attractancy 144.
- Lepidoptera**, monitoring, population levels, pheromone traps + insecticides 987.
scales, kairomones, response, parasitoids, *Chelonus* 935.
sex pheromone chemical composition, ovipositor, chromatography, mass spectroscopy 924.
synthetic sex pheromone, attractancy, forests 522.
- Leptinotarsa decemlineata**, amino acids receptors, phagostimulants 399.
orientation, olfactory stimuli, host plants, *Solanum tuberosum* 1129.
- Leptothorax affinis**, trail pheromone, trail following behavior, chemical communication 1308.
- Lepus americanus**, feeding behavior, body odors effects on, predator-prey interactions, *Gulo gulo* 1026.
Vulpes vulpes urine odors, 3-methyl-3-butyl methyl sulfide, suppression, feeding behavior 1380.
- Lepus capensis**, mother-offspring interactions effects on olfactory preferences development 226.
- Leuconostoc oenos**, wine isolates, malolactic fermentation, volatiles, gas chromatography, wine 1053.
- Leukemia**, cells, *Bordetella pertussis* toxins inhibition chemotactic factors production 447.
chemotaxis, inhibition, role chemotactic factors, carcinoma 833.
- Leukocytes**, chemotactic factors responsiveness, carcinoma, man 415.
chemotaxis, Boyden chamber methodology 1120.
chemotaxis, bullous pemphigoid, antigen-antibody complexes, epidermolysis bullosa, man 96.
chemotaxis, *Pleurocetes platessa*, inflammation, mediators 1222.
chemotaxis, zinc nutrient deficiency immunosuppression, man 478.
effects on, inflammation sites, leukocyte adherence, chemotaxis, man 1218.
glucocorticoids effects on chemotaxis, dogs 452.
lipoxigenase products, chemotaxis, psoriasis, man 69.
morphology, chemotaxis, chemokinesis 858.
pregnancy serum effects on chemotaxis, man 84.
- Leukocytes (eosinophilic)**, chemotactic factors, chemotaxis, leukocytes (mononuclear), asthma, man 445.
chemotactic factors, purification, characterization 467.
chemotactic factors, release, Strongyloides ratti larvae effects on leukocytes (neutrophilic), guinea-pigs 1213.
chemotaxis, cattle, chemotactic factors, *Ostertagia ostertagi* 468.
chemotaxis, role *Taenia taeniformis* infection, rats 1215.
chemotaxis, *Schistosoma japonicum* 88.
Schistosoma mansoni effects on chemotaxis, mice 865.
- Leukocytes (granulocytic)**, amoxicillin + doxycycline effects on chemotaxis, man, rabbits 446.
cattle thymus extracts, chemotaxis, man 103.
chemiluminescence, N-formyl-methionyl-leucyl-phenylalanine, oxidation 436.
chemokinesis, chemotactic factors, man 100.
- Leukocytes (granulocytic)**, (continued)
chemotaxis, antigen-antibody complexes, mucocutaneous lymph node syndrome, man 409.
chemotaxis, mucocutaneous lymph node syndrome, children, man 101.
N-formyl-methionyl-leucyl-phenylalanine, chemotactic factors 443.
morsini effects on N-formyl-methionyl-leucyl-phenylalanine role chemotaxis, man 95.
Sclerolobus canula, chemotactic factors, chemotaxis, man 1223.
zinc effects on chemotaxis, aging 90.
- Leukocytes (mononuclear)**, chemotactic factors biosynthesis, activation, *Clostridium tetani* toxins, lymphocytes T chemotaxis, man 474.
chemotactic factors, characterization, heart, *Psiplo cynocephalus* 466.
chemotactic factors, leukocytes (eosinophilic), chemotaxis, asthma, man 445.
chemotaxis, psoriasis, man 76.
- Leukocytes (neutrophilic)**, allopurinol effects on chemotaxis, blood, man 852.
antineoplastic drugs, antibacterial agents, antifungal agents, glucocorticoids, cardiotonics, sulfonamides, immunosuppression chemotaxis 70.
Bordetella pertussis toxins effects on chemotaxis, rabbits 71.
characterization, affinity labelling, chemoreceptors, rabbits 437.
characterization, chemotactic factors, eggs, *Schistosoma japonicum* 457.
chemoreceptors, man 107.
chemoreceptors, peritoneum, rabbits 432.
chemotactic factors effects on chemotaxis, man 85.
chemotactic factors effects on morphology, cattle 449.
chemotactic factors, larvae, *Oesophagostomum auleatum* 848.
chemotaxis assays, man 850.
chemotaxis, burn patients serum, man 111.
chemotaxis, cattle, chemotactic factors, *Ostertagia ostertagi* 468.
chemotaxis, chemotactic factors, inflammatory bowel diseases, complement, man 87.
chemotaxis, complement component C3a, complement component C5a, N-formyl-methionyl-leucyl-phenylalanine, burns, man 439.
chemotaxis, Duchenne's muscular dystrophy, man 1216.
chemotaxis, hydrogen peroxide induction, complement component C5a, serum, man 462.
chemotaxis inhibition, pertussis toxins role, peritoneum, rabbits 845.
chemotaxis inhibition, venom, *Loxosceles reclusa* 1210.
chemotaxis, L-formyl-methionyl-leucyl-phenylalanine, computers assays, man 861.
chemotaxis, levamisole immunostimulation, man 463.
chemotaxis, *Macaca mulatta*, blood 846.
chemotaxis, N-formyl-methionyl-leucyl-phenylalanine, chemoreceptors 83.
chemotaxis, N-formyl-methionyl-leucyl-phenylalanine receptors, rats 77.
chemotaxis, platelet-activating factor, calcium flux, GTP-binding protein regulation, man 472.
chemotaxis, respiratory distress syndrome, lavage fluids, man 67.
chemotaxis response, collagen fragments, blood, man 832.
chemotaxis, rat intramammary device, cattle 856.
chemotaxis, *Schistosoma japonicum* 88.
chemotaxis, *Staphylococcus aureus*, *Escherichia coli*, mastitis, cattle 1221.
chlorpromazine + clopenthixol effects on chemotaxis, man 843.
cigarette smoke effects on chemotaxis, man 842.
cold storage effects on aggregation + chemotaxis, man 459.
cytochalasin A effects on chemotaxis, rabbits 92.
diclofenac sodium effects on chemotaxis, man 854.
etretinate effects on chemotaxis, psoriasis, man 86.
N-formyl-methionyl-leucyl-phenylalanine, fibronectin, plasma, chemotactic factors 102.
N-formyl-methionyl-leucyl-phenylalanine + N-formyl-norleucyl-leucyl-phenylalanine role colitis, rats, mice 1220.
heart + lung bypass immunosuppression chemotaxis, man 108.
 α -hemolysin, chemotaxis, *Escherichia coli*, infection 1219.
hydroxylalkenals effects on chemotaxis, rats 73.
inflammation, chemotaxis, arthritis, hydroxyapatite crystals, hemodialysis, man 90.
inflammation effects on chemotaxis 857.
migration inhibition + activity, chemotactic factors, inhibition, chronic lymphatic leukemia, man 853.
orientation, chemotactic factors gradients 112.
pepstatin effects on chemotaxis, role receptors, N-formyl-methionyl-leucyl-phenylalanine, man 435.
platelet factor 4 role chemotaxis inhibition, man 841.
polymyxin B effects on phorbol 12-myristate 13-acetate induction chemotaxis, rabbits 851.
selenium, nutrient deficiency, effects on leukocytes (polymorphonuclear) production chemotactic factors, *Oreomys americanus* 448.
storage effects on chemotaxis, man 454.
Strongyloides ratti larvae effects on, release, leukocytes (eosinophilic), chemotactic factors, guinea-pigs 1213.
litchidine effects on chemotaxis, rats 441.
- Leukocytes (polymorphonuclear)**, agarose, chemotaxis, chemokinesis, children 89.
aliphatic alcohols effects on chemotactic factors, blood, man 859.
antralin, chemotaxis inhibition 465.
Bacillus anthracis toxins effects on chemotaxis, man 438.
Bordetella pertussis toxins, chemotaxis inhibition, man 442.
chemoreceptors distribution 855.
chemoreceptors, man, reviews 1204.
chemotactic factors, complement component C5a activation, hemodialysis, man 1209.
chemotactic factors, macrophages release, stimulation, *Escherichia coli* endotoxins, rats 1217.
chemotaxis, antiinflammatory agents effects on, rats 834.
chemotaxis, calcium, intracellular levels, extracellular levels, N-formyl-methionyl-leucyl-phenylalanine activation 476.
chemotaxis, chemotactic defects induction, storage, temperature effects on, man 475.
chemotaxis, dermatitis herpetiformis, man 75.
chemotaxis, gingiva inflammatory diseases, man 110.
chemotaxis, Hodgkin's disease 433.
chemotaxis inhibition, immunoglobulins, man 81.
chemotaxis, lipids, leukotrienes 105.
chemotaxis, peripheral blood, blood uterus, horses 78.
chemotaxis, skin, Boyden chamber 72.
chemotaxis, skin window, tuberculosis, pneumonia, diseases 1168.
chemotaxis, yeasts 80.
colchicine, vinblastine, nocodazole effects on leukocytes (polymorphonuclear)

Leukocytes (polymorphonuclear), (continued)

- chemotaxis, man 94.
complement component C5a receptors, chemotactic factors, man 444.
N-formyl-methionyl-leucyl-phenylalanine, complement component C5a, effects on adherence endothelium cells, chemotaxis peptides, man 837.
N-formyl-methionyl-leucyl-phenylalanine induction chemotaxis inhibition, wheat germ agglutinins characterization 453.
N-formyl-methionyl-leucyl-phenylalanine leukocytes (polymorphonuclear) chemotaxis, wheat germ agglutinins inhibition, man 458.
N-formyl-peptides receptors, plasma membranes, man 1206.
opsinization zymosan, chemotactic factors, rats 91.
peptide synthesis role chemotaxis-chemiluminescence, man 97.
poly(L-arginine)-L-lectins-calcium ionophores, chemiluminescence, blood, man 109.
selenium deficiency role chemotaxis, goats 838.
selenium, nutrient deficiency, effects on leukocytes (neutrophilic) chemotactic factors production, *Oreomys americanus* 448.
selenium, nutrient deficiency, effects on leukocytes (neutrophilic) chemotactic factors production, *Oreomys americanus* 448.
tufsin analogs peptide synthesis effects on chemotaxis 451.

Leukotriene B₄

- effects on fibroblasts chemotaxis 124.

Leukocytes

- production, keratinocytes, man 470.

Leukotrienes

- leukocytes (polymorphonuclear) chemotaxis 105.

Levamisole

- immunostimulation, leukocytes (neutrophilic) chemotaxis, man 463.

Life span

- storage, vacuum packaging methodology effects on, sheep 1491.

Light

- effects on flavor, *Apium graveolens* 1495.

Limax pseudoflavus

- trail following behavior, orientation, tentacles 948.

Limbic system

- role, olfactory stimuli induction, vertigo, rabbits, man 1134.

Limulus polyphemus

- chemoreceptors, synapses 1201.

Lineatin

- aggregation pheromone synthesis, *Trypodendron lineatum* 275.

- attractancy, *Trypodendron lineatum*, *Trypodendron domesticum* 603.

Lingual nerve

- innervation, fungiform papillae, tongue, hamsters 66.

Lympha litigiosa

- sex pheromone release, relationship, reproductive behavior 1236.

Lipase

- effects on Cheddar cheese flavor 1079.

Lipids

- degradation, role off flavor, pork 1096.

- leukocytes (polymorphonuclear) chemotaxis 105.

Lipoprotein (low-density)

- role, monocytes chemotaxis inhibition, myeloid leukemia, man 829.

Lipoxygenase

- products, leukocytes chemotaxis, psoriasis, man 69.

Listronotus bonariensis

- antifeedants, bioassays, *Acremonium loliae* infection, *Lolium perenne* 945.

Lithium

- induction taste aversion, conditioned response, brain mediation rats, brain, mediation lithium induction, taste aversion, conditioned response, rats 644.

Live capture

- trapping, conspecific odors effects on, olfactory discrimination, *Apodemus sylvaticus* 1006.

Livestock

- dust role odor pollution 1457.

- filters use deodorization, odor pollution 1436.

- odor pollution control 1425.

- odor pollution control 1426.

- odor pollution control 1458.

- odor pollution control, biogas plants, slurries 1442.

- odor pollution control use digestion (anaerobic), feces 1446.

- odor pollution, deodorization, slurries, sludges, conferences 1499.

- wastes, volatiles, chemical composition 1406.

- wastes, digestion (anaerobic), odor pollution control 1444.

- wastes, odor pollution control, digestion (anaerobic) 1443.

- wastes, odor pollution control, digestion (anaerobic) 1445.

- wastes, odor pollution control use fermentation 1447.

- weather effects on odor pollution 1454.

Loxia boitardii

- biological control, pheromones 979.

- integrated control, pesticide applications, sex pheromone, pheromone traps, *Bacillus thuringiensis*, vineyards, Italy, Lazio 195.

- pest control, sex pheromone, eudemone 196.

- pheromone traps, (E)-7-(Z)-9-dodecadienyl acetate, vineyards population density 309.

Locomotion

- amino acids, proteins effects on, *Mayorella penardi* 116.

- chemotaxis, monocytes comparison macrophages 849.

- N-methyl-D-aspartic acid induction, magnesium dependent, spinal cord, *Petromyzon marinus* 1202.

Locomotor activity

- lactation urine odors, long-term effects, females, mice 657.

Locus coeruleus

- brain stem, norepinephrine containing projections, olfactory bulb, rats 1182.

- ESB effects on olfactory tubercle unit activity, rats 13.

Locusta migratoria

- antifeedants, plant extracts, *Vismia* 561.

Lolium perenne

- pest resistance, *Acremonium loliae* infection, antifeedants, isolation, bioassays, *Listronotus bonariensis* 945.

Lordosis behavior

- olfactory perception effects on, role, progesterone, males, rats 213.

- urine odors induction, feminized males, rats 1353.

- vomeroneasal organ removal effects on, females, hamsters 1355.

- vomeroneasal organs ablation effects on, luteinizing hormone-releasing hormone reversal, females, hamsters 997.

Lotus corniculatus

- flowers, olfactory stimuli, foraging behavior, *Apis mellifera* 951.

Loxosceles reclusa

- venom, immune system, leukocytes (neutrophilic) chemotaxis inhibition 1210.

Lung

- asbestos effects on chemotactic factors, macrophages, man 98.

- asbestos inhalation, macrophages chemotaxis, rats 1207.

- assays, motility, chemotaxis, macrophages 74.

- capsaicin stimulation C-fibers, effects on reflexes activity, dogs 22.

- chemoreceptors, self ventilation, carbon dioxide, chickens 403.

- chemotactic factors release, macrophages, asbestos inhalation, rats 440.

- +heart bypass, immunosuppression leukocytes (neutrophilic) chemotaxis, man 108.

- hyperoxia effects on chemotactic agents, macrophages, rats 79.

- inflammation, leukocytes (neutrophilic), chemotactic factors, macrophages activation, asbestos, chronic effects, sheep 31.

- macrophages chemotaxis, Boyden chamber methodology comparison, man 830.

- receptors, obstructive lung disease, man 800.

Luteinizing hormone

- secretion, ovulation, estrus behavior, olfactory stimuli, goats 1354.

Luteinizing hormone-releasing hormone

- localization, neurons, olfactory bulb, mice 818.

- reversal vomeronasal organs ablation, effects on lordosis behavior, females, hamsters 997.

Luteolin-7-glucoside

- feeding stimulants, isolation, *Salix gracilistyla*, *Chrysomelidae* 160.

2,6-Lutidine

- aroma compounds, hydroxylation, fungi, *Pseudomonas* 302.

Lycoperoan esculentum

- γ radiation effects on volatiles chemical composition 1059.

- taste panel evaluation, fruits 1478.

- volatiles, stimulation, host searching behavior, *Trichogramma pretiosum* 899.

Lymantiria monacha

- pest status, monitoring, pheromone traps, sex pheromone 961.

Lymnaea stagnalis

- brain, neurons, electrophysiology mapping, innervation peripheral chemoreceptors 1203.

Lymphadenopathy

- chemotaxis, monocytes, man 113.

Lymphocytes

- chemotaxis, synovial fluid interleukin 1, role, rheumatoid arthritis, man 796.

- large granular, chemotaxis, man 460.

Lymphocytes B

- chemotaxis, gut lymphoid tissue, immunoglobulin A, milk, mice 836.

Lymphocytes T

- cattle thymus extracts, chemotaxis man 103.

- chemoreceptors, acute promyeloid leukemia, man 828.

- chemotactic defects chemotactic factors, malignancy, man 413.

- chemotactic factors, thymocyte-activating factor production, keratinocytes, epidermis 464.

- chemotaxis, leukocytes (mononuclear), chemotactic factors biosynthesis, activation, *Clostridium tetani* toxins, man 474.

- hybridoma, chemotactic factors production, biochemical characteristics, man 471.

Lymphoid cells

- chemotaxis, nomenclature 479.

Lymphoid tissue

- gut, chemotaxis lymphocytes B, immunoglobulin A, milk, mice 836.

Lymphokines

- monocytes chemotactic factors, breast milk, man 104.

Lyonella clarkella

- sex pheromone, attractancy, chemical composition, chirality, enantiomers, 14-methyl-1-octadecene 502.

- sex pheromone synthesis, 14-methyl-1-octadecene 666.

Maceca fascicularis

- cortex (frontal opercular) unit activity, taste stimuli 1146.

- nerves solitary tract nucleus, unit activity, taste stimuli 398.

Maceca irus

- olfactory system, structure, function, brain 57.

Maceca mulatta

- chemotaxis, leukocytes (neutrophilic), blood 846.

Macrobrachium rosenbergii

- feeding stimulation, feeds additives, chemoreception, trimethylammonium hydrochloride 944.

Macrocyclic lactones

- sex pheromone, identification, Dufour's gland, *Lasioglossum zephyrum* 511.

Macrophages

- asbestos, chronic effects activation, chemotactic factors, leukocytes (neutrophilic), inflammation, lung, sheep 31.

- asbestos effects on chemotactic factors, lung, man 98.

- assays, motility, chemotaxis, lung 74.

- chemotactic factors release, lung, asbestos inhalation 440.

- chemotaxis, asbestos inhalation, lung, rats 1207.

- chemotaxis assays, chemotactic factors, man 82.

- chemotaxis, Boyden chamber methodology comparison, lung, man 830.

- chemotaxis, cell surface, N-formyl-methionyl-leucyl-phenylalanine receptors, methylation 1205.

- chemotaxis, gene regulation, mice 456.

- chemotaxis, locomotion, comparison monocytes 849.

- chemotaxis modulation, role haptoglobin 831.

- chemotaxis, N-formyl-methionyl-leucyl-phenylalanine, mice 133.

- chemotaxis, nephritis, guinea-pigs 862.

- chemotaxis, peritoneal exudate cells, dental manipulation, rats 1208.

- hyperoxia effects on chemotactic agents, lung, rats 79.

- ovary carcinoma, release, chemotactic factors, regulation macrophages 410.

- pollutants effects on chemotactic response, chemotactic response, *Pisces* 1212.

- pollutants effects on chemotaxis, phagocytosis, *Pisces* 1211.

- purification, characterization, chemotactic factors 866.

- release, leukocytes (polymorphonuclear) chemotactic factors, stimulation, *Escherichia coli* endotoxins, rats 1217.

Macrophomina phaseolina

- effects on zoospores chemotaxis, *Actinoplanes missouriensis* 875.

Macroscelidia

- olfaction, role, social behavior, scent gland, anatomy 244.

Magnesium

- binding sites characterization, tongue, taste perception, *Rana catesbeiana* 1145.

- dependent, N-methyl-D-aspartic acid induction, locomotion, spinal cord,

Magnesium, (continued)

Petromyzon marinus 1202.

Magnetic fields,

effects on navigation behavior, role, odors, pigeons 1389.
role, homing behavior, pigeons, reviews 1393.
role, navigation behavior, pigeons, reviews 1387.

Majorana hortensis monech,

flavor compounds, chemical composition 1060.

Males,

induction females estrus, pheromones, mice 1361.
pheromones, electroantennograms, *Anastrepha ludens* 751.
Staphylococcus aureus enterotoxin B effects on sex pheromone production,
Anthonomus grandis 883.
synthesis, sex pheromone, *Eldana saccharina* 1040.
vagina secretions, odor perception effects on sexual behavior, hamsters 1357.

Malignancy,

chemotactic defects chemotactic factors, lymphocytes T, man 413.

Melolontha fermentation,

Leuconostoc oenos, volatiles, gas chromatography, wine 1053.

Melittose,

chemotaxis, *Escherichia coli* 484.
chemotaxis, transduction, *Salmonella typhimurium* 482.

Melius,

alcoholic beverages, fruit juices flavorings chemical composition, hexobarbital 1409.
fruit juices flavorings chemical composition, hexobarbital, alcoholic beverages 1409.

Melus domestica,

fruits, flavor compounds, chemical analysis 715.

Melus sylvestris,

fruits, aroma compounds volatiles chemical composition, alcohols effects on 279.

Manestra brassicae,

sex pheromone chemical composition, biological control *Brassica oleracea*, *Beta vulgaris* 985.
sex pheromone, purification, chemical composition, attractancy 1291.

Manestra configurata,

calling behavior, circadian rhythms, relationship photoperiod 1270.

Mammalia,

chemical composition, olfactory perception, behavior, reviews 662.
odors, production, skin, glands, respiratory system, urinary tract, genital tract, anus, oral cavity 272.
olfaction, role, social behavior, scent gland, anatomy, books 374.
olfaction signals, chemical communication, bioassays 638.
vomeronasal organs, olfaction, social behavior, feeding behavior 634.

Mammary gland,

chemotaxis, tumor cells, rats 106.

Man,

age effects on olfaction 1167.
age effects on olfactory perception 789.
age effects on taste perception, statistical analysis 1162.
aliphatic alcohols effects on chemotactic factors, leukocytes (polymorphonuclear), blood 859.
allopurinol effects on leukocytes (neutrophilic) chemotaxis, blood 852.
amoxicillin+doxycycline effects on leukocytes (granulocytic) chemotaxis 446.
5 α -androst-16-en-3-one role olfactory thresholds, adrostenes 1164.
antimicrobial agents, drugs, flavorings 747.
asbestos effects on chemotactic factors, macrophages, lung 98.
Bacillus anthracis toxins effects on leukocytes (polymorphonuclear) chemotaxis 438.
benzoprofen effects on monocytes chemotaxis, psoriasis 835.
blindness effects on olfaction 1161.
Bordetella pertussis toxins, chemotaxis inhibition, leukocytes (polymorphonuclear) 442.
Bordetella pertussis toxins inhibition chemotactic factors production, leukemia cells 447.
cattle thymus extracts, chemotaxis, leukocytes (granulocytic), lymphocytes T 103.
chemokinesis, chemotactic factors, leukocytes (granulocytic) 100.
chemoreceptors, fetuses, infants 1155.
chemoreceptors, lymphocytes T, acute promyeloid leukemia 828.
chemotactic defects chemotactic factors, lymphocytes T, malignancy 413.
chemotactic factors, chemotaxis, leukocytes (granulocytic), *Scyllorhinus canicula* 1223.
chemotactic factors effects on chemotaxis, leukocytes (neutrophilic) 85.
chemotactic factors, inflammatory bowel diseases, complement, chemotaxis, leukocytes (neutrophilic) 87.
chemotactic factors, leukocytes (eosinophilic), chemotaxis, leukocytes (mononuclear) asthma 445.
chemotactic factors, leukocytes (polymorphonuclear), complement component C5a activation, hemodialysis 1209.
chemotaxis assays, chemotactic factors, macrophages 82.
chemotaxis assays, monocytes, leukocytes (neutrophilic) 850.
chemotaxis factors effects on vascular system endothelium, placenta 125.
chemotaxis, fibroblasts comparison transformed cells, epidermis 864.
chemotaxis, leukocytes, bullous pemphigoid, antigen-antibody complexes, epidermolysis bullosa 96.
chemotaxis, leukocytes (granulocytic), mucocutaneous lymph node syndrome, children 101.
chemotaxis, leukocytes (polymorphonuclear), dermatitis herpetiformis 75.
chemotaxis, leukocytes (polymorphonuclear), gingiva inflammatory diseases 110.
chemotaxis, monocytes, dermatomyositis 114.
chemotaxis, psoriasis, leukocytes (mononuclear) 78.
chemotherapy effects on monocytes chemotaxis, testes carcinoma 847.
children, thymomegaly, chemotactic defects, phagocytes 419.
chlorpromazine+clophenoxol effects on leukocytes (neutrophilic) chemotaxis 843.
chronic lymphatic leukemia, leukocytes (neutrophilic), migration inhibition activity, chemotactic factors, inhibition, man 853.
cigarette smoke effects on leukocytes (neutrophilic) chemotaxis 842.
colchicine, vinblastine, nocodazole effects on leukocytes (polymorphonuclear) chemotaxis 94.
cold storage effects on aggregation+chemotaxis, leukocytes (neutrophilic) 459.
complement component C5a, chemotactic factors, fibroblasts, inflammation, cattle 446.
complement component C5a receptors, chemotactic factors, leukocytes (polymorphonuclear) 444.
diclofenac sodium effects on leukocytes (neutrophilic) chemotaxis 854.
etretinate effects on leukocytes (neutrophilic) chemotaxis, psoriasis 86.

Man, (continued)

females odors effects on hunting 237.
fibroblasts, chemotaxis, mucopolysaccharidosis 93.
L-formyl-methionyl-leucyl-phenylalanine, leukocytes (neutrophilic) chemotaxis, computers assays 861.
N-formyl-peptides receptors, plasma membranes, leukocytes (polymorphonuclear) 1206.
fruits yogurt taste discrimination 343.
glucose anomers effects on insulin release, brain stem role taste perception 1477.
guanine regulatory protein effects on monocytes response, chemotactic factors 863.
heart+lung bypass immunosuppression leukocytes (neutrophilic) chemotaxis 108.
hydrogen peroxide induction, complement component C5a, leukocytes (neutrophilic) chemotaxis, serum 462.
immunoglobulins, inhibition chemotaxis, leukocytes (polymorphonuclear), monocytes 81.
industries effects on olfaction 1157.
infants, taste perception, diets 29.
kidney transplantation effects on taste acuity, uremia 414.
large granular lymphocytes chemotaxis 460.
leukocytes chemotaxis, lipoxigenase products, psoriasis 69.
leukocytes, effects on, inflammation sites, leukocyte adherence, chemotaxis 1218.
leukocytes (neutrophilic), chemoreceptors 107.
leukocytes (neutrophilic), chemotaxis, burn patients serum 111.
leukocytes (neutrophilic), chemotaxis, Duchenne's muscular dystrophy 1216.
leukocytes (neutrophilic) chemotaxis, lavage fluids, respiratory distress syndrome 67.
leukocytes (neutrophilic) chemotaxis, levamisole immunostimulation 463.
leukocytes (neutrophilic) chemotaxis response, collagen fragments, blood 832.
leukocytes (polymorphonuclear), agarose, chemotaxis, chemokinesis 89.
leukocytes (polymorphonuclear), chemoreceptors, reviews 1204.
leukocytes responsiveness chemotactic factors, carcinoma 415.
leukotiene B4 production, keratinocytes 470.
macrophages chemotaxis, Boyden chamber methodology comparison, lung 830.
mice, cell hybrids, *Bordetella pertussis* toxins, inhibition chemotaxis 120.
migraine effects on olfaction 33.
mensen effects on N-formyl-methionyl-leucyl-phenylalanine role chemotaxis, leukocytes (granulocytic) 95.
monocytes chemotactic factors, lymphokines, breast milk 104.
monocytes, chemotaxis, benzodiazepines receptors 450.
monocytes, chemotaxis defects, immunoglobulin A, immunodeficiency 412.
monocytes chemotaxis plasma inhibitors, cervix carcinoma 411.
monocytes, chemotaxis, role elastin, fragments 1214.
monocytes, N-formyl-methionyl-leucyl-phenylalanine receptors binding 68.
monocytes, tumor cells, bombesin, chemotactic factors 461.
odor perception methodology 1159.
odor thresholds 1158.
odors identification, olfaction 1160.
odors identification, olfaction, sex comparison 27.
olfaction chemoreceptors, odors, characterization, reviews 32.
olfaction, nutritional status, food intake, anosmia 37.
olfaction, visual stimuli effects on, children 1166.
olfactory perception, benzaldehyde, pyridine, n-butyl alcohol 794.
olfactory stimuli effects on memory stimulation 786.
organoleptic evaluation, pectin, gels 1482.
ovary carcinoma, release, chemotactic factors, regulation macrophages 410.
pepstatin effects on chemotaxis, role receptors.
N-formyl-methionyl-leucyl-phenylalanine, leukocytes (neutrophilic) 435.
platelet factor 4 role leukocytes (neutrophilic) chemotaxis inhibition 841.
poly(L-arginine)+lectins+calcium ionophores, chemiluminescence, leukocytes (polymorphonuclear), blood 109.
pregnancy effects on salts taste perception 795.
pregnancy serum effects on chemotaxis, leukocytes 84.
reaction time, sweetness, taste 26.
reaction time, taste discrimination, phenylthiocarbamide comparison 28.
receptors, obstructive lung disease, lung 800.
rheumatoid arthritis, synovial fluid interleukin 1, role, lymphocytes chemotaxis 796.
role lipoprotein (low-density), monocytes chemotaxis inhibition, myeloid leukemia 829.
role peptide synthesis, chemiluminescence, leukocytes (polymorphonuclear) chemotaxis 97.
scanning electron microscopy, papillae, tongue 1163.
Staphylococcus aureus chemotactic factors effects on monocytes chemotaxis 840.
storage effects on leukocytes (neutrophilic) chemotaxis 454.
taste adaptations, habituation 790.
taste adaptations, taste 407.
taste irritation, quinine, sodium chloride, citric acid effects on 793.
taste panel evaluation, memory, orange juice 1486.
taste panel evaluation, methodology, stimuli 1476.
taste perception, antineoplastic drugs effects on 787.
taste perception, bitterness suppression, tongue 25.
taste perception, cigarette smoking, surveys 1497.
taste perception deficiency, phenylthiourea, population genetics, gene frequency, Jordan 418.
taste perception interaction olfaction 788.
taste perception, multiple sclerosis 34.
taste perception, side effects, captopril 24.
taste perception, sour 792.
taste perception, sweetness 1165.
taste perception, threshold, role age 791.
taste responsiveness sweetness, mathematical models, obesity 35.
use detection odor pollution, odor perception 1451.
volatiles, chemical composition, diets effects on, feces 1407.
wheat germ agglutinins inhibition, N-formyl-methionyl-leucyl-phenylalanine induction leukocytes (polymorphonuclear) chemotaxis 458.
wine, taste panel evaluation 1463.
zinc nutrient deficiency immunosuppression leukocytes chemotaxis 478.

Mandibular glands,

queens, ultrastructure, secretions, pheromones, *Apis mellifera* 810.

Manduca sexta,

calling behavior, females, regulation, nervous system 1127.

Mangifera indica,

aroma, volatiles, chemical composition 1401.

fruits flavor 330.

- Mangifera indica**, (continued)
heat treatments effects on volatiles, mangoes 296.
- Mangoes**,
flavor 330,
heat treatments effects on volatiles, *Mangifera indica* 296.
- Manica rubida**,
trail pheromone, identification, 3-ethyl-2,5-dimethylpyrazine 162.
- Manihot esculenta**,
fermentation, hydrogen peroxide, deodorization 320.
- Mannitol**,
sugars chemoreceptors, stereospecificity, setae, *Boettcherisca peregrina* 44.
- α -D-Mannosidase**,
effects on chemotaxis, *Caenorhabditis elegans*, *Panagrellus redivivus* 494.
- Menure**,
odor pollution control, fertilizer applications 1432,
odor pollution control, applications 1433,
odor pollution control, storage 1431,
odor pollution control use pest, cattle 1430,
sludges, odor pollution control 1424,
storage, odor pollution control 1429.
- Mersalmus kullioneus**,
onions like odors 746.
- Marsupialia**,
olfaction, role, social behavior, scent gland, anatomy 243.
- Marthasterias glacialis**,
chemoreception, structure-activity relationships, lactic acid, amino acids, acetylcholine 378.
- Mass spectroscopy**,
sex pheromone chemical composition, ovipositor, *Lepidoptera* 924.
- Mastitis**,
Staphylococcus aureus, *Escherichia coli*, leukocytes (neutrophilic), chemotaxis, cattle 1221.
- Mate selection**,
body size, fecundity, olfactory stimuli, *Notophthalmus viridescens* 998,
females discrimination, urine odors, dominance, males, hamsters 1008,
fitness 884,
relationship scent marking behavior, hamsters 220.
- Maternal behavior**,
role, norepinephrine containing efferent pathway, olfactory bulb, sheep 229.
- Mathematical models**,
taste responsiveness sweetness, obesity, man 35.
- Mating**,
disruption, integrated control, pest control, sex pheromone release, *Dacus oleae* 975,
disruption, pest control, efficacy, gossypilure, *Pectinophora gossypiella* 589,
disruption, sex pheromone, analogs, *Heliothis virescens* 1249,
disruption, sex pheromone, integrated control, *Dacus oleae* 1329,
disruption, sex pheromone, pinyolure, pest control, *Thaumetopoea wilkinsoni* 1336,
disruption, synthetic sex pheromone, *Alsophila pomotaria* 1340,
factors affecting, attractancy, aggregation pheromone, *Dermestes maculatus* 926,
pheromones dissemination, functional morphology, rectum epithelium, anus glands, *Ceratitis capitata* 920,
relationship, sex pheromone levels, diel periodicity, *Heliothis zea* 158,
role, pheromones, pest control, *Tephritidae* 960,
sex pheromone chemical composition effects on, *Eupoecilia ambiguella* 914,
sex pheromone effects on, *Sceliododes cordalis* 1262.
- Mating behavior**,
antagonists sex pheromone, 4S,6S,7S-sericomin, *Lasioderma sericome* 1245,
attractancy, pheromones, adaptiveness, *Phthorimaea operculella* 153,
disruption, pest control, sex pheromone, eudemone, *Lobesia botrana* 196,
disruption, pest control, use, sex pheromone, Z-7-tetradecenol, *Prays oleae* 193,
disruption, sex pheromone, pest control, *Choristoneura fumiferana* 1338,
disruption, sex pheromone, use pest control, *Pectinophora gossypiella*, Egypt, Arab Rep. 201,
fight activity, males, sex pheromone, *Agrotis segetum* 528,
pheromones, antagonists, effects on, *Lasioderma sericome* 919,
recognition, chemical perception, *Belonogaster petiolata* 912,
role, chemical perception, *Choristoneura fumiferana* 1296,
role, olfaction, *Riptortus clavatus* 900,
sex pheromone, courtship, *Dacus cucurbitae* 503,
sex pheromone, effects on, *Hyphantria cunea* 1244,
sex pheromone, effects on, 1-methylbutyl decanoate, *Thyridopteryx ephemeraeformis* 954,
sex pheromone, sex glands extracts, effects on, *Adoxophyes orana* 506,
sex pheromone, *Xylotrechus pyrrhoderus* 501,
urine odors, chemical stimuli, reproductive status, estrus cycle, cattle 1001.
- Mataucoccus**,
sex pheromone, bioassays, isolation, interspecific attractancy 910.
- Maturation**,
chemoreception, reviews, *Schistosoma* 1351,
digestive tract, perception, stimuli, relationship, taste control, behavior, rats 266,
olfactory bulb, relationship, imprinting prey odors, *Mustela putorius* 1027,
olfactory system, Vertebrata, reviews 817.
- Maturity**,
effects on aroma compounds volatiles, kiwifruit 281.
- Maxillary palps**,
sensilla, ultrastructure, mechanoreceptors, chemoreceptors, *Drosophila melanogaster* 39.
- Mayonnaise**,
+ minced meat, γ radiation treatment, taste panel evaluation 374.
- Mayorella penardi**,
proteins, amino acids effects on locomotion 118.
- Mass learning**,
conspecific odors control, role, Harderian gland, rats 1376.
- Measuring techniques**,
sludges, odor pollution 1449.
- Meat**,
goats, organoleptic evaluation, fats levels 361,
nitrite off flavor inhibition 340,
off flavor, urine taints, *Rangifer tardus* 726.
- Meat products**,
dry, stability, organoleptic evaluation 1100,
organoleptic evaluation, buffaloes 1487,
salami, starter cultures, bacteria, fermentation, organoleptic properties 1086,
sausages, blood pancakes, storage effects, spoilage, organoleptic evaluation 723.
- Mechanical stimuli**,
oral cavity, solitary tract nucleus neurons response, decerebrate rats 397.
- Mechanoreceptors**,
sensilla, maxillary palps, ultrastructure, *Drosophila melanogaster* 39.
- Media (culture)**,
nutrient requirements, flavor, *Morchella crassipes* 1088.
- Mediators**,
inflammation, chemotaxis, leukocytes, *Pleurocetes platessa* 1222.
- Medicago sativa**,
volatiles, effects on, oviposition, *Bruchophagus roddi* 898.
- Medulla oblongata**,
auditory evoked potentials, external stimuli effects on, *Rutilus rutilus* 1184,
facial nerve innervation, palate, projections, *Fugu pardalis* 377,
olfactory bulb response, amino acids neurotransmitters, EEG, *Pagrus major* 385.
- Melanotus communis**,
plant extracts, antifeedants, bioassays 163.
- Melissa officinalis**,
antifeedants, plant extracts, *Pieris brassicae* 557.
- Melittobia australica**,
conspecifics, sex pheromone, comparison attractancy, *Melittobia digitata*, *Melittobia femorata* 157.
- Melittobia digitata**,
conspecifics, sex pheromone, comparison attractancy, *Melittobia australica*, *Melittobia femorata* 157.
- Melittobia femorata**,
conspecifics, sex pheromone, comparison attractancy, *Melittobia australica*, *Melittobia digitata* 157.
- Membrane potential**,
taste buds cells, tongue perfusion, electrophysiological recording, *Rana catesbeiana* 1195,
taste buds, mice 1153,
taste cells, potassium, sodium, *Rana* 395.
- Memory**,
orange juice, taste panel evaluation, man 1486,
stimulation, olfactory stimuli effects on, man 786.
- Meningitis**,
chemotactic factors, cerebrospinal fluid, man 416.
- Mentha piperita**,
antifeedants, plant extracts, *Pieris brassicae* 557,
essential oils, harvesting frequency, organoleptic evaluation 314.
- Meriones unguiculatus**,
predator-prey interactions, chemical communication, cats 1033.
- Mesocricetus**,
parabrachial nuclei, neurons, response taste stimuli, tongue 1143.
- Metamorphosis**,
chemical stimuli, structure-activity relationships, marine environment, Invertebrata 1235,
larvae, induction, *Porites compressa* chemicals, *Phestilla sibogae* 990.
- Meteorology**,
olfactory perception, navigation behavior, Aves 663.
- Methanethiol**,
odors, *Bacillus licheniformis* proteolysis, cheese 727.
- Methionine**,
chemotaxis, *Achlya ambisexualis* 123.
- Methoprene**,
stimulation, aggregation pheromone production, use, pest control, stored products, *Coleoptera* 506.
- Methyl (Z)-5-tetradecenoate**,
sex pheromone, isolation, *Anomala rufocuprea* 140.
- Methyl esterase**,
chemotaxis regulators, *Escherichia coli* 127.
- Methyl eugenol**,
attractancy, pest control, economics, *Dacus dorsalis* 588,
attractants, pest control, equipment, dispensers, *Dacus dorsalis* 587.
- Methyl 2,3-di-O-(L-alanyl)-D-glucopyranoside**,
synthesis, sweetness 305.
- 2-Methyl-(E)-2-butenolic acid**,
esters, chemical composition, aggregation pheromone, *Drosophila virilis* 568.
- (R)-1-Methyl-(E)-2-butenyl hydroxyacetate**,
2-(R,3S)-2-hydroxy-3-methyl-(E)-4-hexenoic acid, chirality, enantiomers, pheromones synthesis 1049.
- Methyl-accepting chemotaxis protein**,
methylation, *Escherichia coli*, *Bacillus subtilis* 487.
- N-Methyl-D-aspartic acid**,
induction, locomotion, magnesium dependent, spinal cord, *Petromyzon marinus* 1202.
- 14-Methyl-1-octadecene**,
sex pheromone, chemical composition, chirality, enantiomers, attractancy, *Lyoneia clerkella* 502,
sex pheromone synthesis, *Lyoneia clerkella* 686.
- 8-Methyl-2-decanol**,
esters, isomers, synthesis, sex pheromone 664.
- 8R-Methyl-2R-decyl propanoate**,
bait, attractancy, *Diabrotica barberi*, *Diabrotica virgifera virgifera* 185.
- 3-Methyl-3-butenyl methyl sulfide**,
urine odors, *Vulpes vulpes*, suppression, feeding behavior, *Lepus americanus* 1380.
- 4-Methyl-3-heptanone**,
pheromones synthesis, use solar radiation 1044.
- Methylation**,
chemoreceptors, thermophilic bacteria 782,
methyl-accepting chemotaxis protein, *Escherichia coli*, *Bacillus subtilis* 487.
- 1-Methylbutyl decanoate**,
sex pheromone, effects on, mating behavior, *Thyridopteryx ephemeraeformis* 954.
- 2-Methylisobornol**,
odors, *Phormidium tenue*, odor pollution, lakes 708.
- 17 α -Methyltestosterone**,
sexual reproduction, inhibition, alarm pheromone containing epidermis cells, *Brachydanio rerio* 1002.
- Metopia campestris**,
nests, olfactory discrimination 540.
- Mice**,
adrenal gland effects on sex pheromone, puberty, females 623,
aggressive behavior inhibition effects on scent marking behavior, urine odors, males 1011,
aggressive behavior, role chemosignals, accessory gland, characterization, males 1371,
chemical communication, ovary hormones role estrus pheromones regulation 995.

Mice, (continued)

- cyproterone acetate effects on sex pheromone 1360.
early experience, social environment, effects on response, conspecific odors 240.
estrus cycle change, sex pheromone, vomeronasal organ ablation 214.
N-formyl-methionyl-leucyl-phenylalanine, chemotaxis, macrophages 133.
N-formyl-methionyl-leucyl-phenylalanine + N-formyl-norleucyl-leucyl-phenylalanine
role colitis, leukocytes (neutrophils) 1220.
imprinting, females, preputial gland secretion odors, males 216.
inheritance role, taste 760.
lactation urine odors, long-term effects, locomotor activity, females 657.
lymphocytes B chemotaxis, gut lymphoid tissue, immunoglobulin A, milk 836.
macrophages chemotaxis, gene regulation 456.
man, cell hybrids, Bordetella pertussis toxins, inhibition chemotaxis 120.
naloxone effects on response, novelty 251.
odors induction, analgesia, defeat, males 1009.
olfactory stimuli acceleration, puberty, females 215.
olfactory system, agglutinin receptors, binding, characterization 1140.
pheromones, males induction estrus, females 1361.
reproductive behavior, urine scents, olfactory perception, histocompatibility
locus H-2 626.
Schistosoma mansoni effects on leukocytes (eosinophilic) chemotaxis 865.
taste buds, mature potential 1153.
urine odors effects on puberty, role, photoperiod, food deprivation, females 223.
urine odors, estrus cycle, reproductive behavior 222.
vomeronasal organ role, urine odors effects on puberty 219.

Microbial pollution,

odors, lakes 1081.

Microflora,

effects on beef, organoleptic evaluation 1102.

Microorganisms,

aroma compounds biosynthesis, reviews 1471.
aroma compounds, off flavor, Cheddar cheese 1094.

Microplitis demolitor,

host selection, stimulation, excretory products, kairomones, Heliothis zea 992.

Microtubules,

dendrites, ultrastructure, neurons, olfactory bulb, Rana catesbeiana 48.

Microtus,

social organization, correlation, odors, comparison, Apodemus, Clethrionomys 235.

Microtus agrestis,

anus glands, atrophy, social environment, conspecific odors 1190.

Microwave oven,

comparison baking, heating effects on, organoleptic properties, fish 347.

Migraine,

effects on olfaction, man 33.

Migration,

behavior, endothelium cells, ADP, adenosine 839.
use, pheromones, Salvelinus alpinus 1037.

Migration inhibition,

activity, leukocytes (neutrophils), chemotactic factors, inhibition, chronic
lymphatic leukemia, man 853.

Milk,

age effects on, taste panel evaluation 1109.
buttermilk solids incorporation, oxidation flavor 1090.
casein coagulation effects on, organoleptic evaluation 1111.
fatty acids effects on flavor, Oreamnos americanus 1410.
flavor, ultrahigh temperature pasteurization effects on, reviews 1087.
lymphocytes B chemotaxis, gut lymphoid tissue, immunoglobulin A, mice 836.
packaging effects on off flavor, vitamins 339.
storage effects on off flavor, Telome cheese 335.
volatiles, flavor compounds, methodology detection 1071.

Milk products,

Indian, organoleptic evaluation 1105.
organoleptic evaluation, flavor, odors, shelf life 717.

Mimicry,

odors, role, pollination, Ophrys lutea, Andrena fuscipes 1302.
predation, defensive mechanisms, olfactory stimuli, pyrazines, Danaus plexippus,
Zygaea ionocerae, Amata 1272.

Mixed meat,

+ mayonnaise, γ radiation treatment, taste panel evaluation 734.

Mimulus,

antifeedants, association regurgitation, Isoptera 181.

Misgurnus anguillicaudatus,

Palaeomon paucidentis feeding attractants role 1382.

Mitral cells,

olfactory bulb, evoked potentials, olfactory stimuli, drugs effects on, Gekko
gekko 1133.
olfactory bulb, olfactory stimuli deprivation effects on morphology, morphometry,
rats 1141.

Molecules,

structure, odors 1408.

Molt-inhibiting hormone,

characterization, Cancer antennarius 611.

Monensin,

effects on N-formyl-methionyl-leucyl-phenylalanine role chemotaxis, leukocytes
(granulocytic), man 95.

Monillales,

metabolites, Eugenia gracilis attractancy 164.

Monkeys,

age effects on taste buds 401.

Monochamus carolinensis,

attractancy, bait, turpentine 197.

Monochamus titillator,

attractancy, bait, turpentine 197.

Monocytes,

benzoxaprofen effects on chemotaxis, psoriasis, man 835.
chemoreceptors, fibronectin receptors fragments, man 473.
chemotactic factors, lymphokines, breast milk, man 104.
chemotaxis, acquired immune deficiency syndrome, lymphadenopathy, drug abuse 113.
chemotaxis assays, man 850.
chemotaxis, benzodiazepines receptors, man 450.
chemotaxis, cell surface, N-formyl-methionyl-leucyl-phenylalanine receptors,
methylation 1205.
chemotaxis defects, immunodeficiency, immunoglobulin A, man 412.
chemotaxis, dermatomyositis, man 114.
chemotaxis inhibition, immunoglobulins, man 81.
chemotaxis inhibition, role lipoprotein (low-density), myeloid leukemia, man 829.

Monocytes, (continued)

chemotaxis, locomotion, comparison macrophages 849.
chemotaxis plasma inhibitors, cervix carcinoma, man 411.
chemotaxis, polarization, cell membranes glycoproteins role 99.
chemotaxis, role elastin fragments, man 1214.
chemotherapy effects on chemotaxis, testes carcinoma 847.
density gradients isolation, chemotaxis, assays, chambers, man 477.
endotoxins effects on chemotaxis, eye, rabbits 860.
filter paper, chemotaxis assays 844.
N-formyl-methionyl-leucyl-phenylalanine, chemotactic factors 443.
N-formyl-methionyl-leucyl-phenylalanine-lysine receptors binding, man 68.
response chemotactic factors, guanine regulatory protein effects on 863.
Staphylococcus aureus chemotactic factors effects on chemotaxis, man 840.
tumor cells, chemotactic factors, bombesin, man 461.

Monodelphis domestica,

scent gland, morphology 827.

Monoterpenes,

chemical stimuli, attractancy, pest attack, Pinus eliotti, Dendroctonus
tetrebrans 966.
defense secretions, feeding behavior deterrents, Plagioder versicolora 1273.
ethyl ether, chemical analysis, grapes, wine 295.
volatiles, flavor compounds, Ambrosiozyma monospora 674.

Monoterpene,

olfaction, role, social behavior, scent gland, anatomy 242.

Morchella crassipes,

media (culture), nutrient requirements, flavor 1088.

Morphine,

acetaldehyde interaction, effects on taste aversion learning, conditioned
response, rats 261.
induction, taste aversion learning, role, cortex (insular), rats 642.

Morpholine,

olfactory stimuli, homing behavior, Oncorhynchus kisutch, USA, Oregon, Salmon R.
659.

Mother,

offspring responsiveness, mother-offspring interactions, pheromones, rats 228.

Mother-offspring interactions,

effects on olfactory preferences development, Lepus capensis 226.
feces containing pheromones, mother, offspring ingestion, rats 231.
induction, olfactory preferences, role, huddling, juveniles 227.
offspring responsiveness mother, pheromones, rats 228.
role, estrus olfactory stimuli, rats 1005.

Motility,

chemotaxis, assays, macrophages, lung 74.
colchicine, vinblastine, nocodazole effects on leukocytes (polymorphonuclear),
man 94.

Motivation,

learning behavior, cues, taste perception 648.

Mouth,

epithelium, taste buds, distribution, occurrence, function, Lacertilia 400.
ultrastructure, electron microscopy, chemoreceptors, Beroe cucumis 826.

Mouthparts,

females, aggregation pheromone, Phlebotomus papatasi 551.

Mucocutaneous lymph node syndrome,

chemotaxis, leukocytes (granulocytic), children, man 101.
leukocytes (granulocytic) chemotaxis, antigen-antibody complexes, man 409.

Mucopolysaccharidosis,

fibroblasts, chemotaxis, man 93.

Mucus,

trail following behavior, Deroceras laeve 171.
vagina, isolation, mounting pheromones, estrus, cattle 1000.

Multiple sclerosis,

taste perception, man 34.

Muricide,

γ -aminobutyric acid inhibition, olfactory bulb, rats 767.

Mus musculus,

urine odors, volatiles, relationship, hormones levels, chemical communication
1004.

Musa,

wine, taste panel evaluation 1099.

Musca domestica,

attractants, stereospecificity, effects on nervous system 381.
sex pheromone, isolation, genital tract, males, attractancy, females 500.
synthetic sex pheromone, synthesis, methodology 1396.

Musca vetustissima,

attractants, efficacy, chemical composition 965.

Muscles,

organoleptic evaluation, cattle 358.

Mustela,

olfactory deprivation reduction, dendritic branching, olfactory bulb development
10.

Mustela erminea,

chemical composition, anus glands, secretions 661.

Mustela furo,

imprinting prey odors, olfactory bulb morphology 1179.

Mustela nivalis,

predatory behavior, olfaction correlation, imprinting 1381.

Mustela putorius,

chemical composition, anus glands, secretions 661.

Mutants,

chemotaxis receptors, Escherichia coli, characterization, phenotypes, tar gene
1230.

Mutton,

volatiles, flavor compounds, gas chromatography, fats 292.

Myeloid leukemia,

role lipoprotein (low-density), monocytes chemotaxis inhibition, man 829.

Myoinositol,

deterrents, oviposition, host plants, Eureka hecabe mandarina 139.

Myomorphs,

olfaction, role, social behavior, scent gland, anatomy 248.

Myosin,

phosphorylation stimulation, cyclic AMP, role chemotaxis, Dictyostelium 871.

Myrcene,

host plants monoterpenes, exposure, sex differences, aggregation pheromone

- Myrcene, (continued)**
biosynthesis, *Dendroctonus ponderosae* 1300.
- Myrcenol,**
aggregation pheromone, biosynthesis, sex differences, myrcene exposure, *Dendroctonus ponderosae* 1300.
- N.M.R.,**
chemotactic factors, analogs, aggregation, conformational analysis 434.
- Myrcenol,**
flavor compounds, *Cydonia oblonga* 1072.
- Naloxone,**
antagonism sulphidic, hyperdipsic activity, taste preferences, salts, drinking behavior, rats 1149.
effects on response, novelty, mice 251.
inhibition, saccharin dietary intake, rats 779.
- Nasutitermes,**
defense secretions, chemical composition 612.
- Nesutitermes castalis,**
cembrene-A, trail pheromone, bioassays, trail following behavior, recruitment, orientation 178.
- Nauphoeta cinerea,**
sex pheromone, glands, morphology 812.
sex pheromone, glands, morphology, histology, ultrastructure 809.
- Navigation behavior,**
magnetic fields effects on, role, odors, pigeons 1389.
olfactory perception, meteorology, Aves 663.
role, odors, magnetic fields, pigeons, reviews 1387.
role, odors, pigeons 1388.
- Necocoryphus bicrucis,**
palatability, host plants toxins, Anolis, Bufo 266.
- Nectar,**
flowers, olfactory stimuli, foraging behavior, *Apis mellifera*, *Lotus corniculatus* 951.
- Nematoda,**
chemical stimuli, conspecifics, hosts, effects on reproductive behavior, ingestion 1263.
hatching behavior, host searching behavior, role, hosts chemical stimuli 1348.
pheromones, chemical communication, pest control 151.
- Nemeritis canescens,**
superparasitism, host selection, Dufour's gland secretions, pheromones 902.
- Neonates,**
breast feeding, role, olfactory stimuli, tactile stimuli, rabbits 230.
olfaction reflexes, asphyxia, man 36.
olfactory bulb evoked potentials, rats 773.
role sleep respiration rhythms, chemoreceptors, carotid sinus, rats 23.
- Nephritis,**
macrophages chemotaxis, guinea-pigs 862.
- Nerve endings,**
facial nerve, ultrastructure, solitary tract nucleus, hamsters 64.
- Nervus,**
chorda tympani, heavy metals inhibition, taste perception, mice 18.
chorda tympani, responsiveness taste stimuli, gynecemic acid effects on, Pan troglodytes 17.
regeneration, taste buds, rats 393.
response, taste stimuli, *Macaca fascicularis* 398.
- Nervous system,**
regulation, calling behavior, females, *Manduca sexta* 1127.
- Nests,**
olfactory discrimination, *Melipona campestris* 540.
recognition pheromones, *Atta cephalotes* 621.
- Neuraminidase,**
effects on chemotaxis, *Caenorhabditis elegans*, *Panagrellus redivivus* 494.
- Neuroblastoma cells,**
N-18, odor compounds induction, depolarization 11.
- Neurons,**
anterior olfactory nucleus, brain, morphogenesis, developmental stages, rats 772.
biochemical characteristics, organization, olfactory bulb ablation effects on, rats 45.
brain, electrophysiology mapping, innervation peripheral chemoreceptors, *Lymnaea stagnalis* 1203.
cortex (olfactory), calcium currents, kinetics, guinea-pigs 9.
cortex (olfactory), morphogenesis, developmental stages, rats 771.
cortex (prefrontal), olfactory discrimination, characterization, rabbits 7.
dendrites, microtubules, ultrastructure, olfactory bulb, *Rana catesbeiana* 48.
olfactory bulb, localization, luteinizing hormone-releasing hormone, catecholamines, mice 818.
olfactory bulb, morphology, topography, cats 821.
olfactory bulb, opoids, substance P, neuropeptide Y, acetylcholine, immunochemistry localization, cats 820.
olfactory epithelium, differentiation, effects on benzodiazepines receptors binding, mice 813.
parabrachial nuclei, response taste stimuli, tongue, *Mesocricetus* 1143.
periglomerular region, olfactory bulb, glutamate decarboxylase, tyrosine 3-monooxygenase immunoreactivity localization, rats 59.
physiology, cerebrum, sex pheromone response, *Bombyx mori* 808.
septal organ receptors, projections olfactory bulb, anatomy, rats 1192.
solitary tract nucleus, response taste stimuli, mechanical stimuli, oral cavity, deoerate rats 397.
taste, posteroventral ventral nucleus, oral cavity, rats 83.
- Neuropeptide Y,**
fibers, identification, adrenergic nerves, carotid body, rats 1154.
immunochemistry localization, neurons, olfactory bulb, cats 820.
- Neurophysiology,**
antennal sensilla, pheromones detection, *Trichoplusia ni* 1128.
- Neurotoxicity,**
heavy metals, effects on, olfaction, *Oncorhynchus kisutch* 760.
- Neverita didyma,**
predatory behavior, kairomones 1288.
- Nezara viridula,**
eggs, recognition, bioassays, chemical stimuli, kairomones, *Trissolcus basalus* 149.
- Nicotine,**
effects on food intake, role, sweetness, nutritive value, rats 267.
induction conditioned response taste aversion, chlorisondamine, intracerebroventricular administration, inhibition, rats 1148.
- Nicotine, (continued)**
induction, taste aversion learning, saccharin, hamsters 1375.
- Nilaparvata lugens,**
plant extracts, volatiles, effects on food preferences, role pest resistance, *Oryza sativa* 180.
- Nislin,**
effects on bacon, organoleptic evaluation 1103.
- Nitrate,**
effects on odors, salts preservation, fishery products, Clupea 328.
effects on organoleptic evaluation, salts preservation, fishery products, Clupea 329.
- Nitrite,**
off flavor inhibition, meat 340.
- Nocodazole,**
effects on leukocytes (polymorphonuclear) chemotaxis, cyclic AMP, motility, man 94.
- Noctuidae,**
olfactory perception, sex pheromone, electroantennograms 147.
sex pheromone, reproductive isolation, *Diachrysa tutti*, Switzerland 916.
sex pheromone, taxonomic significance, chemical composition 923.
- Nodes of Ranvier,**
lack of formation, olfactory bulb, cats 1176.
- Nomilin,**
flavor debittering, Citrus fruit juices, nomilin acetyl-lyase activity, *Corynebacterium fascians* 323.
- Nomilin acetyl-lyase,**
activity, flavor debittering, Citrus fruit juices, *Corynebacterium fascians* 323.
- Nonadecadiene,**
attractancy, sex pheromone, Geometridae 597.
- (Z)-3-Nonenol,**
attractancy, sex pheromone, *Anastrepha ludens* 905.
- Nonfat dry milk,**
storage effects on, taste panel evaluation 362.
- Norepinephrine,**
brain stem projections, olfactory bulb (accessory), role, pheromones blocking, pregnancy, mice 211.
efferent pathway containing, olfactory bulb, role maternal behavior, sheep 229.
projections containing, locus coeruleus, brain stem, olfactory bulb, rats 1182.
role, taste organs, *Rana* 777.
- Nose,**
2-isobutyl-3-methoxyxypyrazine-binding protein, purification, characterization, cattle 49.
- Notophthalmus viridescens,**
mate selection, body size, olfactory stimuli 998.
- Novelty,**
response, naloxone effects on, mice 251.
- Nucleotide sequence,**
chemotaxis genes, proteins, amino acid sequence, predictions, *Escherichia coli* 480.
- Nutrient deficiency,**
selenium, effects on leukocytes (neutrophilic) chemotactic factors production, leukocytes (polymorphonuclear), *Oreomys americanus* 448.
zinc, immunosuppression leukocytes chemotaxis, man 478.
- Nutrient requirements,**
media (culture), flavor, *Morchella crassipes* 1088.
- Nutritional status,**
food intake, olfaction, anosmia, man 37.
- Olita,**
chemical composition tegument essential oils, *Prunus amygdalus* 315.
- Olyctereutes ptychocheilus,**
olfactory discrimination, feces, role, social interactions 238.
scent marking behavior, latrines 239.
- Obesity,**
taste responsiveness sweetness, mathematical models, man 35.
- Obstructive lung disease,**
receptors, lung, man 800.
- Ocimum kilimandscharicum,**
chemical composition, essential oils 317.
- 3,13-Octadecadien-1-ol,**
pheromones, response, males, *Synanthedon exitiosa*, *Synanthedon pictipes* 200.
- Octadecadienyl acetates,**
synergism, pheromones, trapping, Sesiidae 1327.
- 1-Octen-3-ol,**
attractancy, bait, *Glossina* 198.
attractants, olfactory stimuli, *Glossina morsitans morsitans*, *Glossina pallidipes* 172.
enantiomers synthesis, odors 883.
- Octodon degus,**
social behavior, sex differences 633.
- Octopus vulgaris,**
chemotactic response 873.
- Odontocercus albicorne,**
scent gland, anatomy 41.
- Odontotermes obsesus,**
trail pheromone, purification, chemical composition 547.
- Odor aversion learning,**
development, rats 266.
effects on 2-deoxy-D-glucose uptake, olfactory bulb, early experience, rats 1178.
hippocampus lesions disruption, rats 645.
taste potentiation, rats 1022.
- Odor compounds,**
gas chromatography methodology, fragrances 703.
induction, depolarization, N-18 neuroblastoma cells 11.
olfactory perception, stereochemistry, structure-activity relationships 681.
production, water pH, *Actinomyces* 1460.
- Odor control,**
animal wastes, digestion (aerobic), heterotrophic bacteria 1423.
paper mills 321.
pollution control 1080.
wastewater treatment 319.
- Odor perception,**
effects on males sexual behavior, vagina secretions, hamsters 1357.
methodology, man 1159.

Odor perception, (continued)

- odor pollution, detection use man 1451.
- Odor pollution,**
 - control, airborne particles 1428.
 - control, biogas plants, slurries, livestock 1442.
 - control, bioscrubbing 1438.
 - control, digestion (anaerobic), livestock wastes 1443.
 - control, digestion (anaerobic), livestock wastes 1444.
 - control, digestion (anaerobic), livestock wastes 1445.
 - control, feces, pigs 1434.
 - control, feces, pigs 1448.
 - control, fertilizer applications, manure 1433.
 - control, livestock 1425.
 - control, livestock 1426.
 - control, manure, fertilizer applications 1432.
 - control, manure, sludges 1424.
 - control, manure storage 1428.
 - control, sludges, livestock 1458.
 - control, storage, manure 1431.
 - control, use aeration, slurries, pigs 1439.
 - control, use aeration, slurries, pigs 1440.
 - control, use aerobic bacteria, slurries, pigs 1441.
 - control, use digestion (anaerobic), feces, livestock 1446.
 - control, use fermentation, livestock wastes 1447.
 - control, use filters 1437.
 - control, use peat, manure, cattle 1430.
 - deodorization methodology 1427.
 - deodorization, slurries, sludges, livestock, conferences 1499.
 - deodorization technology comparison, waste treatment 1435.
 - detection use man, odor perception 1451.
 - dust role, livestock 1457.
 - evaluation, olfactory perception 1453.
 - evaluation, slurries, sludges 1452.
 - filters use deodorization, livestock 1436.
 - lakes, 2-methylisoborneol, Phormidium tenue 708.
 - sludges, measuring techniques 1449.
 - slurries, pigs 1456.
 - wastewater treatment, chromatography 1455.
 - wastewater treatment, sludges disposal 1450.
 - weather effects on, livestock 1454.
- Odor thresholds,** man 1158.
- Odors,**
 - Acrolepiopsis assectella, Allium, electroantennograms, orientation, Diadromus pulchellus, Diadromus collaris 1306.
 - activation, adenylate cyclase, GTP-binding protein, cell membranes, olfactory nerve 429.
 - association, reinforcement, olfactory bulb unit activity, rats 6.
 - bacon, characterization, 3,5-diisobutyl-1,2,4-trithiolane, 2,4,6-trisubstituted-4H-1,3,5-dithiazine 294.
 - carrion, olfactory, Cathartes aura 1390.
 - characterization, sewage effluents 706.
 - chemical composition, γ -lactones, Fusarium poae 678.
 - chemical composition, Organum 1399.
 - chemical stimuli, attractancy, juveniles, Stizostedion vitreum vitreum 1034.
 - chemoreception, foraging behavior, Apis mellifera 168.
 - Clostridium botulinum, hard-boiled eggs 725.
 - colonial characteristics, Escherichia coli, urine, identification 1121.
 - correlation, social organization, comparison, Clethrionomys, Microtus, Apodemus 235.
 - drinking water, organoleptic evaluation, industrial effluents, paper industry 322.
 - early experience, enhancement, spatial discrimination learning, rats 257.
 - effects on hunting, females 237.
 - effects on reproductive status, physiology, reproductive behavior, primer effects, Rodentia 218.
 - enhancement, taste aversion learning, age, rats 1023.
 - evoked potentials, olfactory bulb, hamsters 1136.
 - food plants volatiles, β -bisabolol, orientation, Anthrenus grandis 576.
 - formation, Flavobacterium, cream, butter, contamination, 1472.
 - fostering, neonate, sheep 629.
 - gas chromatography detection, water 1082.
 - glucose metabolism, hypothalamus (lateral), females effects on males rats 221.
 - hosts, flight activity response, Stomoxys calcitrans 177.
 - identification, olfaction, man 1160.
 - identification, olfaction, sex comparison, man 27.
 - induction, analgesia, defeat, males, mice 1009.
 - methanethiol, Bacillus licheniformis proteolysis, cheese 727.
 - 2-methylisoborneol, Phormidium tenue, odor pollution, lakes 708.
 - microbial pollution, lakes 1081.
 - mimicry, role, pollination, Ophrys lutea, Andrena fuscipes 1302.
 - molecules structure 1408.
 - nitrate effects on, salts preservation, fishery products, Clupea 328.
 - 1-octen-3-ol enantiomers synthesis 683.
 - olfaction chemoreceptors, characterization, reviews, man 32.
 - olfaction comparison chemical analysis 1405.
 - olfactory bulb, chemoreceptors cells, response, electrophysiology characterization, dogs 1138.
 - olfactory bulb response, olfactory discrimination, rats 768.
 - olfactory perception defects, asthma, man 420.
 - olfactory perception, early experience, correlation, sexual behavior, males, rats 627.
 - olfactory perception, induction, aversion learning, defensive behavior, burying behavior, rats 647.
 - olfactory perception, theories, methodology, man 408.
 - organoleptic evaluation, shelf life, milk products 717.
 - plumes, host plants, relationship, flight activity, anemotaxis, allylthiocyanate, Delia radicum 559.
 - pork, boar taints, testosterone implants effects on 1473.
 - preputial gland secretion, imprinting, males, mice 216.
 - prey, imprinting, olfactory bulb morphology, Mustela furo 1179.
 - prey, imprinting, relationship, maturation, olfactory bulb, Mustela putorius 1027.
 - production, skin, glands, respiratory system, urinary tract, anus, oral cavity, Mammalia 272.
 - role, magnetic fields effects on navigation behavior, pigeons 1389.

Odors, (continued)

- role, navigation behavior, pigeons 1388.
- role, navigation behavior, pigeons, reviews 1387.
- sewage treatment, hydrogen sulfide, pollution control, water quality 1459.
- spillage, Lactobacillus, bacteria, vacuum packaging, fishery products, Salmonidae 1091.
- spillage, seafood 724.
- spillage, Vibrionaceae, fishery products, Saimo gairdneri 1093.
- stimulation effects on discharges, olfactory bulb, Carassius auratus 763.
- stimuli, conditioned response, correlation EEG activity, olfactory bulb, rabbits 1142.
- transfer, adoption, sheep 1365.
- urine, conspecifics, vomeronasal organs ablation effects on response, males, guinea-pigs 232.
- vagina, vomeronasal organ role olfactory perception, males, hamsters 14.
- volatiles, cigarettes 679.
- volatiles, development, beef, food spoilage, food contamination 722.
- wine, sorbic alcohol production, lactic acid bacteria 728.
- Oesophagostomum aculeatum,**
 - chemotactic factors, leukocytes (neutrophilic), larvae 848.
- Off flavor,**
 - aroma compounds role, Cheddar cheese, microorganisms 1094.
 - canning effects on beer 730.
 - characterization, cocoa beans 1474.
 - cheese, ripening, peptidase, proteinase, Hordeum vulgare 1466.
 - coconut, desiccation, chemical composition 336.
 - milk storage effects on Teleme cheese 335.
 - nitrite inhibition, meat 340.
 - pork, cooking, curing, freezing 337.
 - Rangifer tardo meat, urine taints 726.
 - role lipids degradation, pork 1096.
 - saponin, Pisum sativum 338.
 - storage effects on eggs+orange juice beverages 341.
 - Synura effects on, water 707.
 - vitamins, packaging effects on, milk 339.
- Offspring,**
 - responsiveness mother pheromones, mother-offspring interactions, rats 228.
- Oiceoptoma noveboracense,**
 - attractancy, carrion 159.
- Oils,**
 - chemical composition, volatiles, Piper nigrum 1062.
 - volatiles, chemical composition, Juniperus communis 675.
- Olas,**
 - biological control, pheromone traps, sex pheromone, Dacus oleae 1310.
- Olfaction,**
 - activation, vomeronasal organs, relationship, seasonal variation, breeding status, Scoloporus jarrovi 390.
 - age effects on, man 1167.
 - algal blooms, EEG, olfactory bulb, Chattonella, Seriola quinqueradiata, Pagrus major 759.
 - blindness effects on, man 1161.
 - carrion odors, Cathartes aura 1390.
 - chemoreceptors, antennae, ATP sensitivity, characterization, Panulirus argus 756.
 - chemoreceptors, odors, characterization, reviews, man 32.
 - chemoreceptors, reviews 417.
 - comparison chemical analysis, odors 1405.
 - detection, chemicals, waste disposal sites, dogs 1122.
 - ethanol, aversion learning, role, UCS, juveniles, rats 646.
 - exploratory behavior, rats 1395.
 - industries effects on, man 1157.
 - interaction taste perception, man 788.
 - migraine effects on, man 33.
 - nutritional status, food intake, anosmia, man 37.
 - odors identification, man 1160.
 - odors identification, sex comparison, man 27.
 - olfactory bulb ablation, exploratory behavior, rats 1394.
 - Oncophrynus kusuth, heavy metals, neurotoxicity, effects on 760.
 - predatory behavior correlation, imprinting, Mustela furo 1381.
 - recruitment, food, Ectatoma ruidum 937.
 - reflexes, asphyxia, neonates, man 36.
 - related behavior, Tayassu tajacu 632.
 - role, mating behavior, Riptortus clavatus 900.
 - role, social behavior, Chiroptera 246.
 - role, social behavior, Hystricomorpha 250.
 - role, social behavior, Insectivora, Macroscelidea, Scandentia 244.
 - role, social behavior, Mammalia, books 374.
 - role, social behavior, Marsupialia 243.
 - role, social behavior, Monotremata 242.
 - role, social behavior, Myomorpha 248.
 - role, social behavior, Sciuromorpha 248.
 - role, social behavior, Tubulidentata, Proboscidea, Hyracoidea 247.
 - role, social behavior, Tupaia belangeri 245.
 - role swimming behavior, Saimo sal 658.
 - sex pheromone, role, courtship, mutants, Drosophila melanogaster 1288.
 - signals, bioassays, chemical communication, Mammalia 638.
 - threshold, eugenol+benzaldehyde, EEG, dogs 384.
 - use, aversion learning, role, age, rats 259.
 - visual stimuli effects on, children, man 1166.
 - volatiles stimuli, Ambystoma tigrinum 761.
 - vomeronasal organs, signal behavior, feeding behavior, Mammalia 634.
- Olfactometers,**
 - equipment, methodology, Coccinellidae 741.
- Olfactory bulb,**
 - ablation, effects on neurons, biochemical characteristics, organization, rats 45.
 - ablation, effects on organization, cortex (olfactory), rats 61.
 - ablation, effects on proteins food selection, rats 334.
 - ablation, olfaction, exploratory behavior, rats 1394.
 - ablation, prevention, short photoperiod induction, anestrus, hamsters 1173.
 - ablation, reduction, cytochrome c oxidase activity, cortex (olfactory), rabbits 58.
- acetylcholine, γ -aminobutyric acid containing pathway, rats 428.
- activity inhibition, development, rats 1181.
- afferent connections, telencephalon, anatomy, Rana 770.
- afferent projections, neurons containing γ -aminobutyric acid, cortex (entorhinal), anatomy, immunoelectron microscopy, rats 60.

Olfactory bulb, (continued)

- amino acids stimulation, *Rana temporaria* 764.
 γ-aminobutyric acid inhibition, muricide, rats 767.
 camphor related molecules, unit activity, *Rana* 1135.
 chemoreceptors cells, response odors, electrophysiology characterization, dogs 1138.
 choline acetyltransferase activity, correlation muscarinic acetylcholine receptors binding, developmental stages, rats 426.
 cholinergic nerves innervation, development, rats 1177.
 development, olfactory deprivation reduction, dendritic branching, *Mustela* 10.
 development, rats 425.
 EEG activity, correlation conditioned response odors stimuli, rabbits 1142.
 EEG, olfaction, algal blooms, *Chattoneia*, *Serolia quinqueradiata*, *Pagrus major* 759.
 EEG, olfactory discrimination learning 3.
 epithelium, receptors cells, ultrastructure, transmission electron microscopy, *Callicebus moloch* 1189.
 epithelium, testosterone metabolism, castration effects on, males, rats 1139.
 epithelium, 2-isobutyl-3-methoxypyrazine receptors binding, kinetics, rats 47.
 ESP, discrimination, rats 12.
 evoked potentials, neonates, rats 773.
 evoked potentials, odors, hamsters 1136.
 glutamine stimulation, effects on unit activity, *Triturus cristatus* 762.
 lesions, fluoxetine, zimeldine effects on avoidance learning, rats 643.
 locus coeruleus, brain stem, norepinephrine containing projections, rats 1182.
 maturation, relationship, imprinting prey odors, *Mustela putorius* 1027.
 mitral cells, androgens effects on development, rats 1175.
 mitral cells, evoked potentials, olfactory stimuli, drugs effects on, *Gecko gecko* 1133.
 mitral cells, olfactory stimuli deprivation effects on morphology, morphometry, rats 1141.
 mitral cells, tufted cells, axons patterns, connections olfactory nucleus anterior, rats 53.
 morphology, imprinting prey odors, *Mustela furo* 1179.
 neurons, dendrites, microtubules, ultrastructure, *Rana catesbeiana* 48.
 neurons, localization, luteinizing hormone-releasing hormone, catecholamines, mice 818.
 neurons, morphology, topography, rats 821.
 neurons, opiate, substance P, neuropeptide Y, acetylcholine, immunocytochemistry localization, rats 820.
 nodes of Ranvier, lack of formation, rats 1176.
 norepinephrine containing efferent pathway, role, maternal behavior, sheep 229.
 odor aversion learning effects on 2-deoxy-D-glucose uptake, early experience, rats 1178.
 odor stimulation effects on discharges, *Carassius auratus* 763.
 olfactory epithelium projections, organization, rats 816.
 olfactory epithelium projections, rats 815.
 olfactory nerve projections, fibers organization, immunohistochemistry, rabbits 50.
 olfactory perception, habituation, exploratory behavior, rats 1386.
 olfactory stimuli coding, ventilation phase, rabbits 383.
 periglomerular cells, localization, calcium dependent calcium-binding protein, tyrosine 3-monooxygenase, rats 53.
 periglomerular region, neurons, glutamate decarboxylase, tyrosine 3-monooxygenase immunogenicity localization, rats 59.
 projections hindbrain, electrophysiology characterization, *Squalus acanthias* 765.
 projections, telencephalon, anatomy, pigeons, comparison, testudines 1191.
 response, amino acids neurotransmitters, EEG, medulla oblongata, *Pagrus major* 385.
 response odors, olfactory discrimination, rats 768.
 septal organ receptors neurons, projections, anatomy, rats 1192.
 structure, *Vertebrata*, reviews 387.
 unit activity, odors, association, reinforcement, rats 6.
 unit activity, ontogeny, mice 16.
Olfactory bulb (accessory),
 brain stem norepinephrine projections, role, pheromones blocking, pregnancy, mice 211.
Olfactory deprivation,
 reduction, dendritic branching, olfactory bulb development, *Mustela* 10.
Olfactory discrimination,
 amygdala lesions effects on, rats 4.
 chemical stimuli, water flow, predatory behavior, *Urosalpinx cinerea* 560.
 conspecific odors, effects on trapping, live capture, *Apodemus sylvaticus* 1006.
 Eumeces laticeps 1035.
 effects, role, social interactions, *Nyctereutes procyonoides* 238.
 fluprazine hydrochloride effects on, rats 1383.
 nests, *Metopias campestris* 540.
 neurons, cortex (prefrontal), characterization, rabbits 7.
 olfactory bulb response odors, rats 768.
vertebrata, reviews 5.
Olfactory discrimination learning,
 EEG, olfactory bulb, rabbits 3.
Olfactory epithelium,
 chemoreceptors distribution, rats 819.
 neurons containing vimentin, rats 65.
 projections, olfactory bulb, organization, rats 816.
 projections, olfactory bulb, rats 815.
 receptors neurons, differentiation, effects on benzodiazepines receptors binding, mice 813.
 supporting cells unit activity, *Urodeles* 766.
 ultrastructure, rats 430.
Olfactory nerve,
 axons, endoplasmic reticulum regulation, calcium intracellular levels, *Rana* 56.
 axons heterogeneity, rabbits 1174.
 cell membranes, adenylate cyclase, odors activation, GTP-binding protein 429.
 chemoreceptors cells, response, olfactory stimuli, pigeons 1137.
 neurophysiology, olfactory perception, ontogeny, rats 389.
 olfactory perception, electrophysiology, unit activity, behavior 386.
 projections olfactory bulb, fibers organization, immunohistochemistry, rabbits 50.
 sectioning, effects on electro-olfactogram activity, characterization, *Salmo gairdneri* 1183.
Olfactory nucleus (anterior),
 mitral cells, tufted cells axons, connections, olfactory bulb, rats 52.
Olfactory organs,
 amino acids receptors, electrophysiology, *Ictalurus punctatus* 8.

Olfactory organs, (continued)

- anterior sensilla, ultrastructure, development, *Calliphora erythrocephala* 38.
 anterior olfactory nucleus, brain, neurons, morphogenesis, developmental stages, rats 772.
 development, embryos, *Sarotherodon galilaeus* 823.
 environmental effects role morphometry adaptations 774.
 evolution, *Vertebrata* 822.
 morphometry, olfactory perception fatty acids, *Sorex arenus* 55.
 receptors, activity, binding, sex pheromone-analogs, *Periplaneta americana* 1132.
 sensilla, leg, ultrastructure, innervation, *Rhyzophyphus robbi* 811.
 sensilla, membranes, electrical properties, *Antheraea polyphemus* 1.
 tyrosine 3-monooxygenase, aromatic-L-amino acid decarboxylase, dopamine β-monooxygenase, distribution, rats 51.
 ultrastructure, function, *Squalus acanthias*, *Scyliorhinus canicula* 1186.
Olfactory pathways,
 development, sexual dimorphism, *Insecta*, reviews 801.
Olfactory perception,
 age effects on, man 789.
 aging, man 798.
 benzaldehyde, pyridine, n-butyl alcohol, man 794.
 caffeine inhibition 735.
 chemical communication, behavior, *Mammalia*, reviews 662.
 chemoreceptors, *Vertebrata*, comparison, chemotaxis, bacteria 388.
 defects, odors, asthma, man 420.
 effects on lordosis behavior, role, progesterone, males, rats 213.
 efficacy, *Corvus corax* 651.
 electroantennograms, *Periplaneta australasiae*, *Periplaneta fuliginosa* 1130.
 evaluation, odor pollution 1453.
 fatty acids, olfactory organs morphometry, *Sorex arenus* 55.
 feeding behavior, radiation effects on, *Ceratitis capitata*, *Anastrepha suspensa* 170.
 flight activity, sex pheromone, orientation, *Grapholita molesta* 143.
 males, detection, estrus, cattle 999.
 avian behavior, meteorology, *Aves* 663.
 neurophysiology, olfactory nerve, ontogeny, rats 389.
 odor compounds, stereochemistry, structure-activity relationships 681.
 odors, aversion learning, induction, defensive behavior, burying behavior, rats 647.
 odors, early experience, correlation, sexual behavior, males, rats 627.
 odors, theories, methodology, man 408.
 olfactory bulb, habituation, exploratory behavior, rats 1386.
 olfactory nerve, electrophysiology, unit activity, behavior 386.
 pheromones, chemical communication, *Invertebrata* 619.
 pheromones, enantiomers, frontalin, *Dendroctonus pseudotsugae* 379.
 receptors, pheromones, electrophysiology, *Trichoplusia ni* 806.
 sex pheromone, electroantennograms, *Hadeninae* 147.
 structure-activity relationships, stereochemistry, dirmane 682.
 vomeronasal organ role, odors vagina, males, hamsters 14.
Olfactory preferences,
 development, mother-offspring interactions effects on, *Lepus capensis* 226.
 fluprazine hydrochloride effects on, rats 1374.
 mother-offspring interactions induction, role, huddling, juveniles, rats 227.
 role, early experience, rats 271.
Olfactory properties,
 essential oils, leaves, *Rosmarinus officinalis* 693.
Olfactory stimuli,
 acceleration, puberty, females, mice 215.
 attractants, 1-octen-3-ol, acetone, carbon dioxide, *Glossina morsitans morsitans*, *Glossina palpalis* 172.
 chemoreceptors cells response, olfactory nerve, pigeons 1137.
 coding, ventilation phase, olfactory bulb, rabbits 383.
 deprivation, effects on mitral cells, morphology, morphometry, olfactory bulb, rats 1141.
 deprivation, survival, abnormal behavior, *Salmo salar* 660.
 deprivation, +visual deprivation, effects on homing behavior, pigeons 1391.
 differentiation, conspecific odors, relationship, courtship, *Gromphadorhina portentosa* 517.
 effects on memory stimulation, man 788.
 effects on range, homing behavior, pigeons 1392.
 estrus, role, mother-offspring interactions, rats 1005.
 estrus, susceptibility, predation, *Peromyscus maniculatus bairdi*, *Mustela nivalis* 1133.
 evoked potentials, mitral cells, olfactory bulb, drugs effects on, *Gecko gecko* 1133.
 fecundity, body size, male selection, *Notophthalmus viridescens* 998.
 flowers, foraging behavior, *Apis mellifera*, *Lotus corniculatus* 951.
 food sources toxicity, aposematism, *Delipphis virgiana* 655.
 foraging behavior, conditioning, *Helianthus volitans*, *Apis mellifera* 942.
 host searching behavior, *Biolestes longicaudatus*, *Opius concolor*, *Trybliographa* 1299.
 induction, vertigo, role, limbic system, cerebellum, rabbits, man 1134.
 luteinizing hormone secretion, ovulation, estrus behavior, goats 1354.
 morpholine, homing behavior, *Oncorhynchus kisutch*, USA, Oregon, *Salmon R.* 659.
 orientation, host plants, *Solanum tuberosum*, *Leptinotarsa decemlineata* 1129.
 orientation, host plants volatiles, *Pinus sylvestris*, *Hylobius abietis* 1303.
 pyrazines, predation, defensive mechanisms, mimicry, *Danaus plexippus*, *Zygaena lonicerae*, *Amata* 1272.
 role, breast feeding, neonates, rabbits 230.
 role, homing behavior, pigeons 1385.
 role, homing behavior, pigeons, reviews 1393.
 role, nipple location, suckling behavior, rats 225.
 role, predatory behavior, *Crotalus viridis* 652.
 role testosterone, effects on pregnancy blocking factors, mice 625.
 scent marking behavior, *Canis lupus* 1013.
 sensilla, ultrastructure, *Calliphora vicina*, *Yponomeuta* 43.
 sex pheromone, reproductive behavior, males, *Adoxophyes orana* 513.
 suppression, predatory aggression, *Oncophanes torridus* 1379.
 + taste stimuli potentiation, aversion learning, rats 1378.
Olfactory system,
 agglutinins receptors, binding, characterization, rats, mice 1140.
 chemoreceptors, cells electrophysiology characterization, pheromones, *Ips* typographus, *Thanasimus formicarius* 376.
 development, *Phocena phocena* 427.
 electrophysiology, anatomy characterization, reviews, monkeys 1187.
 mapping, tentacles, brain, *Achatina fulica* 42.
 maturation, plasticity, *Vertebrata*, reviews 817.

Subject Index

Olfactory system, (continued)

- proteins, amino acid sequence, reviews 814.
- structure, function, brain, *Macaca* 1957.
- Olfactory thresholds,**
 - role 5 α -androst-16-en-3-one, adrostenes, man 1164.
- Olfactory tubercle,**
 - unit activity, hypothalamus (lateral), locus coeruleus ESB effects on, rats 13.
- ventral striatal cema,** *Phascolus vulgaris* agglutinins, axonal transport, synapses, morphology, rats 54.
- Olibanum,**
 - Boswellia*, essential oils, chemical composition 316.
- Oncorhynchus kisutch,**
 - homing behavior, morpholine, olfactory stimuli, USA, Oregon, Salmon R. 659.
 - olfaction, heavy metals, neurotoxicity, effects on 760.
 - populations recognition, chemoreception 635.
- Onions,**
 - like, odors, *Marasmius kallioides* 746.
- Ontogeny,**
 - olfactory bulb, unit activity, mice 16.
 - olfactory perception, olfactory nerve, neurophysiology, rats 389.
- Onychomys torridus,**
 - olfactory stimuli suppression, predatory aggression 1379.
- Ophrys lutea,**
 - pollination, role, semiochemicals, *Andrena fuscipes* 1302.
- Opiates receptors,**
 - type μ , type κ , agonists, reinforcing properties, place+ taste preferences conditioning, rats 253.
- Opioids,**
 - immunohistochemistry localization, neurons, olfactory bulb, cats 820.
- Opius concolor,**
 - host searching behavior, olfactory stimuli 1299.
- Opogona sacchari,**
 - sex pheromone, attractancy 527.
 - sex pheromone, isolation, attractancy 529.
- Oposonization,**
 - zymosan, chemotactic factors, leukocytes (polymorphonuclear), rats 91.
- Optic nerve,**
 - effluent interneurons, response chemoreception, *Orconectes virilis* 1126.
- Oral cavity,**
 - odors, production, Mammalia 272.
 - + eggs beverages, storage effects on off flavor 341.
 - flavor, food processing effects on 331.
 - memory, taste panel evaluation, man 1486.
- Oranges,**
 - extracts, gas chromatography, organoleptic evaluation 712.
 - organoleptic evaluation, γ radiation effects on 351.
- Orchards,**
 - Malus*, pest control, pheromone traps, *Cydia pomonella* 584.
- Orconectes propinquus,**
 - chemoreceptors structure 825.
- Orconectes virilis,**
 - optic nerve, effluent interneurons, response chemoreception 1126.
 - pheromones, defensive behavior 616.
- Oreomys americanus,**
 - fatty acids effects on flavor, milk 1410.
 - selenium, nutrient deficiency, effects on leukocytes (neutrophilic) chemotactic factors production, leukocytes (polymorphonuclear) 448.
- Organic compounds,**
 - attractancy, food, *Tyrophagus putrescentiae* 933.
- Organoleptic evaluation,**
 - age, washing, eggs 368.
 - aroma, coffee 353.
 - bacteria spoilage, freezing, *Hyperglyphe porosa* 325.
 - blood plasma fermentation effects on, sausages, cattle 1479.
 - casein coagulation effects on, milk production 1111.
 - cheese, grana cheese 1480.
 - comparison flavor chemical composition, Allium 1112.
 - comparison spectrophotometry, bitterness, beer 744.
 - cooking methodology effects on eggs 739.
 - dairy starters fermentation, dilution, curd 709.
 - deposition effects on *Perna vindex* 733.
 - environmental factors effects on, *Daucus carota* 1481.
 - essential oils, harvesting frequency, *Merithia piperita* 314.
 - fats content effects on pork 348.
 - fats levels effects on, reconstitution beef 359.
 - fats levels, goats meat 361.
 - flavor, chemical composition, beer 1106.
 - flavor, methodology 350.
 - flavor, odors, shelf life, milk products 717.
 - food, cooking conditions 369.
 - gas chromatography, oranges extracts 712.
 - glycoalkaloids, potatoes 1115.
 - Indian milk products 1105.
 - meat products, buffaloes 1487.
 - meat products, dry, stability 1100.
 - methodology 1106.
 - methodology, wine 1097.
 - methyl 2,3-di-O-(L-alanyl)-D-glucopyranoside, synthesis, sweetness 305.
 - microwave oven comparison baking, heating effects on, organoleptic properties, fish 347.
 - muscles, cattle 358.
 - nisin effects on bacon 1103.
 - nitrate effects on, salts preservation, fishery products, *Clupea* 329.
 - pectin gels, man 1482.
 - preservatives, fruit bodies, *Pleuratus sapidus* 324.
 - production effects on, cheese 1116.
 - γ radiation effects on, fruits, *Prunus persica* 355.
 - γ radiation effects on oranges 351.
 - ripening methodology effects on, tomatoes 365.
 - ripening, storage effects on, apple juice 352.
 - shelf life effects on food 1489.
 - sodium chloride, sucrose, storage effects on, pork 364.
 - soy flour effects on pork sausages 356.
 - spoilage, storage effects, blood pancakes, sausages, meat products 723.

Organoleptic evaluation, (continued)

- statistical analysis, methodology 371.
- sweeteners effects on yogurt 1114.
- temperature, storage, microflora, effects on beef 1102.
- tofu, coconut cream effects on 349.
- triacylglycerol lipase ripening, cheese 1467.
- vacuum packaging+temperature effects on, pork 1490.
- Organoleptic properties,**
 - amino acids effects on, wine, *Vitis vinifera* 1098.
 - canning effects on leaves, *Vigna unguiculata* 366.
 - cysteine+2,5-dimethyl-4-hydroxy-3(2H)-furanone reaction, thiophenone products 711.
 - heat treatments effects on cream 370.
 - meat products, salami, fermentation, starter cultures, bacteria 1086.
 - microwave oven comparison baking, heating effects on, fish 347.
 - Ras cheese effects on cheese 736.
 - salts effects on, cooking, eggs 737.
 - spoilage, cold storage, food 1464.
 - stevioside+rebaudioside A analogs 732.
 - taste panel evaluation, chemical composition, *Crassostrea gigas*, *Crassostrea virginica* 1101.
- Orygia gonostigma,**
 - sex pheromone, isolation, chemical composition 1241.
- Orygia pseudotsugata,**
 - pheromone traps, attractancy, pesticides effects on 188.
- Orientation,**
 - Acrolepiopsis assectella*, Allium odors, conspecific odors, *Diadromus pulchellus*, *Diadromus collaris* 1306.
 - aggregation pheromone, food plants volatiles, *Anthonomus grandis* 576.
 - aggregation pheromone, oviposition, erythro-6-acetoxy-5-hexadecanoid, *Culex quinquefasciatus* 156.
 - carion, *Oiceoptoma noveboracense* 159.
 - Castanea sativa extracts, electroantennograms, *Cydia splendana*, *Cydia tagliandana* 167.
 - disruption, synthetic sex pheromone, *Alsophila pomataria* 1340.
 - flight activity, factors affecting, sex pheromone, (Z,E)-9,11-tetradecadienyl acetate, (Z,E)-9,12-tetradecadienyl acetate, *Spodoptera litura* 138.
 - males sex pheromone, females, males, *Anastrepha ludens* 536.
 - olfactory stimuli, host plants, *Solanum tuberosum*, *Leptinotarsa decemlineata* 1129.
 - olfactory stimuli, host plants volatiles, *Pinus sylvestris*, *Hylobius abietis* 1303.
 - sex pheromone, *Adoxophyes* 903.
 - sex pheromone, components, formulations, males, *Pectinophora gossypiella* 155.
 - sex pheromone, *Diaphania hyalinata* 539.
 - sex pheromone, flight activity, olfactory perception, *Grapholita molesta* 143.
 - sex pheromone, *Heliothis virescens* 537.
 - sex pheromone, *Trogoderma variable* 1243.
 - trail following behavior, bioassays, trail pheromone, cembrene-A, *Nasutitermes costalis* 178.
 - trail following behavior, tentacles, *Limax pseudoflavus* 948.
 - wings sex pheromone, *Ephestia elutella* 538.
- Orienting response,**
 - aggregation pheromone, detection methodology, taxis, *Blattella germanica* 552.
- Origanum,**
 - chemical composition, odors 1399.
- Ornithodoros porcinus porcinus,**
 - aggregation pheromone, identification, guanine 553.
- Orthotomicus erosus,**
 - aggregation behavior, pheromone traps, attractants 982.
- Oryza sativa,**
 - pest resistance, role, plant extracts, volatiles, *Nilaparvata lugens* 180.
- Oryzaephilus mercator,**
 - aggregation pheromone, identification, characterization 578.
 - aggregation pheromone production, methoprene stimulation, use, pest control, stored products 606.
- Oryzaephilus surinamensis,**
 - aggregation pheromone, identification, characterization 578.
 - aggregation pheromone production, methoprene stimulation, use, pest control, stored products 606.
 - attractants, volatiles chemical composition, Avena 579.
- Oscillatoria,**
 - chemotaxis, carbon dioxide, oxygen, bicarbonate 488.
- Osteria osteragi,**
 - chemotactic factors, leukocytes (neutrophilic)+leukocytes (eosinophilic) chemotaxis, cattle 468.
- Ostrinia nubilalis,**
 - pheromone traps, attractancy 1281.
- Ovary,**
 - carcinoma, chemotactic factors, regulation, macrophages 410.
 - hormones role estrus pheromones regulation, chemical communication, mice 995.
- Oviposition,**
 - attractancy, chemical perception, host plants, Allium cepa, Allium porum, *Acrolepiopsis assectella* 1234.
 - chemical stimuli, fruits, *Ceratitis capitata* 1253.
 - deterrents, chemoreception, leg, ovipositor, electrophysiology, *Pieris brassicae* 804.
 - deterrents, pheromones, kairomones, *Pieris rapae*, *Pieris brassicae* 896.
 - factors affecting, host plants chemicals, *Lasioderma serricornis* 895.
 - host selection, host plants chemicals, deterrents, *Eurema hecabe mandarina* 139.
 - kairomones, host plants, pest resistance, *Cajanus cajan*, *Heliothis armigera* 186.
 - larvae, inhibition, biological control, *Acanthoscelides obtectus*, *Leguminosae* 1311.
 - orientation, aggregation pheromone, erythro-6-acetoxy-5-hexadecanoid, *Culex quinquefasciatus* 156.
 - pheromones analogs effects on, *Lasioderma serricornis* 895.
 - pheromones deterrents effects on, *Pieris brassicae* 1322.
 - pheromones, deterrents, *Rhagoletis cerasi* 906.
 - plant extracts, effects on, *Pieris brassicae*, *Plutella xylostella* 928.
 - role, pheromones, pest control, *Tephritidae* 960.
 - stimulants, plant extracts, bioassays, *Citrus natsudaidai*, *Papilio protenor* 1256.
 - stimulation, inhibition, fructose, calcium, *Dacus tryoni* 507.
 - volatiles, effects on, *Medicago sativa*, *Bruchophagus roddi* 898.
- Ovipositor,**
 - chemoreception, electrophysiology, deterrents, oviposition, *Pieris brassicae* 804.
 - rhythms, calling behavior, sex pheromone, *Arctidae* 136.

- Ovipositor, (continued)**
sensilla, chemoreceptors, physiology, *Rhagoletis pomonella* 1131.
sex pheromone, chemical composition, chromatography, mass spectroscopy, Lepidoptera 924.
- Ovulation,**
luteinizing hormone secretion, estrus behavior, olfactory stimuli, goats 1354.
sexual intercourse inducers, pheromones role, rats 624.
- Oxidation,**
flavor, buttermilk solids, incorporation, milk 1090.
N-formyl-methionyl-leucyl-phenylalanine, chemiluminescence, leukocytes (granulocyte) 436.
- Oxygen,**
aerotaxis, *Escherichia coli* mutants 485.
chemoreceptors, *Astacus leptodactylus* 20.
chemotaxis, *Oscillatoria* 488.
chemotaxis, *Tetrahymena* 493.
- Oxythryae,**
trapping, attractants, South Africa 1276.
- Pachylobius pichvorus,**
attractancy, bait, turpentine 197.
- Packaging,**
effects on off flavor, vitamins, milk 339.
Petroselinum volatiles 1470.
- Pagrus major,**
amino acids neurotransmitters, olfactory bulb response, EEG, medulla oblongata 385.
olfaction, algal blooms, EEG, olfactory bulb, *Chattonella* 759.
- Palaeomon paucidens,**
feeding attractants role, *Misgurnus anguillicaudatus* 1382.
- Palaeomonetes pugio,**
chemoattractants, amino acids, purines 1298.
- Palatability,**
Dendrobates pumilio, chemical perception, *Cupienius coccineus* 548.
host plants toxins, *Anolis*, *Bufo*, *Neocoryphus bicrucis* 266.
- Palate,**
facial nerve innervation, projections, medulla oblongata, *Fugu pardalis* 377.
- Panagrellus redivivus,**
 α -2-mannosidase + neuraminidase effects on chemotaxis, *Caenorhabditis elegans* 494.
- Pandalus borealis,**
extracts, phagostimulants, feeding behavior, *Gadus morhua* 656.
- Panulirus argus,**
amniae, olfaction chemoreceptors, ATP sensitivity, characterization 756.
- Panulirus interruptus,**
chemical stimuli, aggregation behavior, ecological evaluation 165.
- Papaya,**
flavor 330.
- Paper industry,**
industrial effluents, organoleptic evaluation, odors, drinking water 322.
- Paper mill,**
odor control 321.
- Papilio protenor,**
oviposition stimulants, plant extracts, bioassays, *Citrus natsudaidai* 1256.
- Peptilae,**
electron microscopy, cells, taste, rabbits 1199.
morphology, taste, scanning electron microscopy, horse, cattle 1198.
scanning electron microscopy, tongue, man 1163.
- Papio cynocephalus,**
chemotactic factors, characterization, leukocytes (mononuclear), heart 466.
- Papio papio,**
taste preferences, sodium chloride 1018.
- Parabrachial nuclei,**
neurons, response taste stimuli, tongue, *Mesocricetus* 1143.
- Paragnetina media,**
antennal sensilla, morphology, adults, nymphs 40.
- Paraponera clavata,**
foraging behavior, recruitment, trail pheromone 169.
- Parasitism,**
kairomones effects on, biological control, *Choristoneura fumiferana*, *Trichogramma minutum*, USA, Maine 1316.
- Parasitoids,**
Anastrepha suspensa, host searching behavior, olfactory stimuli, *Biostereus longicaudatus*, *Opius concolor*, *Trybliographa* 1299.
kairomones, response, scales, Lepidoptera, *Chelonus* 935.
- Parental behavior,**
fostering, body odors, neonates, sheep 628.
fostering, odors, sheep 629.
- Passiflora edulis,**
centrifugation, pasteurization effects on volatiles, fruit juices 333.
- Passion fruit,**
centrifugation, pasteurization effects on volatiles, fruit juices 333.
- Pasteurization,**
effects on volatiles, fruit juices, *Passiflora edulis* 333.
ultrahigh temperature, effects on flavor, milk, reviews 1087.
- Pasteurized milk,**
bacteria, contamination, flavor 1084.
flavor, sweetness, potassium sorbate effects on 710.
- Peat,**
use odor pollution control, manure, cattle 1430.
- Pectin,**
gels, organoleptic evaluation, man 1482.
- Pectinophora gossypiella,**
gossypine alcohol, interference, sex pheromone response, gossypure 535.
gossypure, efficacy, pest control, disruption, mating 589.
orientation, sex pheromone, components, formulations, males 155.
pheromone traps, pest control, *Gossypium hirsutum*, India 1277.
sex pheromone, mating behavior disruption, use pest control, Egypt, Arab Rep. 201.
sex pheromone synthesis, gossypure 276.
- Pectinophora scutiger,**
pheromone traps, monitoring, population levels, Australia, Queensland 607.
- Pelargonium,**
essential oils, gas chromatography 311.
- Penicillium caseicola,**
volatiles flavor compounds, cheese flavor, Camembert, Brie 300.
- 1-Pentanol,**
olfactory perception, man 794.
- Pepstatin,**
effects on chemotaxis, role receptors, N-formyl-methionyl-leucyl-phenylalanine, leukocytes (neutrophilic), man 435.
- Peptidase,**
Hordeum vulgare, cheese ripening, cheese flavor, off flavor 1466.
- Peptide synthesis,**
antijuvénile hormone, *Callosobruchus chinensis* 1048
role leukocytes (polymorphonuclear) chemotaxis + chemiluminescence, man 97.
- Peptides,**
chemotaxis, N-formyl-methionyl-leucyl-phenylalanine, complement component C5a effects on leukocytes (polymorphonuclear) adherence endothelium cells, leukocytes (polymorphonuclear), man 837.
sex pheromone, structure, *Saccharomyces kluyveri* 1247.
synthesis, structure-activity relationships, taste 1074.
- Perception,**
stimuli, digestive tract, relationship, taste control, behavior, maturation, rats 256.
- Perfumes,**
chemicals, conferences 749.
essential oils, *Geranium macrorrhizum* 694.
extracts, flavor compounds, conferences 750.
production, China, People's Rep. 748.
production technology evolution 1117.
- Peripheral blood,**
chemotaxis, leukocytes (polymorphonuclear), horses 78.
- Peripheral nerves,**
chemoreceptors, developmental stages, Insecta, reviews 382.
- Periplaneta americana,**
attractants, bait 980.
feeding behavior, association, amino acids, gustatory stimuli 575.
sex pheromone + analogs, activity, binding, receptors, olfactory organs 1132.
sex pheromone, electroantennograms, attractancy, chemical communication 1290.
sex pheromone, purification, characterization, electroantennograms 1252.
synthetic sex pheromone, structure-activity relationships, attractancy 514.
- Periplaneta australasiae,**
olfactory perception, electroantennograms 1130.
- Periplaneta brunnea,**
sex pheromone, purification, characterization, electroantennograms 1252.
- Periplaneta fuliginosa,**
olfactory perception, electroantennograms 1130.
- Periplasmic space,**
binding proteins, tertiary structure, stereospecificity, active transport, chemotaxis, gram-negative bacteria 868.
- Peritoneal exudate cells,**
macrophages chemotaxis, dental manipulation, rats 1208.
- Peritoneum,**
chemoreceptors, leukocytes (neutrophilic), rabbits 432.
pertussis toxins role leukocytes (neutrophilic) chemotaxis inhibition, rabbits 845.
- Perna viridis,**
deuration effects on organoleptic evaluation 733.
- Peromyscus maniculatus baird,**
olfactory stimuli, susceptibility, predation, estrus, *Mustela nivalis* 268.
- Pertussis,**
toxins role leukocytes (neutrophilic) chemotaxis inhibition, peritoneum, rabbits 845.
- Pest attack,**
aggregation pheromone effects on walking, *Ips typographus* 1292.
chemical stimuli, monoterpene, turpentine, paraquat, attractancy, *Pinus elliotti*, *Dendroctonus terebrans* 966.
- Pest control,**
aggregation pheromone, pheromone traps, *Ips typographus*, *Trypodendron lineatum* 962.
attractancy, methyl eugenol, economics, *Dacus dorsalis* 588.
attractancy sex pheromone, *Gortyna xanthenes* 904.
attractants, frontalure, *Dendroctonus frontalis* 1314.
Dendroctonus ponderosae, semiochemicals, pheromone traps, *Pinus contorta* 1287.
disruption, mating, efficacy, gossypure, *Pectinophora gossypiella* 589.
disruption, mating, orientation, sex pheromone synthetic, *Alsophila pomatoria* 1340.
equipment, dispensers, methyl eugenol + pesticides, *Dacus dorsalis* 587.
Insecta, antifeedants, pheromones, biosynthesis, plant breeding, crops 943.
integrated control, mating disruption, sex pheromone release, *Dacus oleae* 975.
Malus orchards, pheromone traps, *Cydia pomonella* 584.
mating disruption, sex pheromone, pyrethroid, *Thaumetopoea wilkinsoni* 1336.
Nematoda, pheromones, chemical communication 151.
Pectinophora gossypiella, pheromone traps, *Gossypium hirsutum*, India 1277.
pheromone traps, detection, *Anthonomus grandis*, Paraguay 959.
pheromone traps, grandure, *Anthonomus grandis*, USA 958.
pheromone traps, odors traps, *Dacus oleae* 1326.
pheromone traps, *Olea europaea*, Arthropoda, books 1125.
pheromone traps, sex pheromone, *Dacus oleae* 1333.
pheromone traps, sex pheromone, *Lymantria monacha* 961.
pheromone traps, Tephritidae, conferences 1498.
pheromone traps, Z-7-tetradecenal, Prays citri, Sicily 194.
pheromones, role, feeding, mating, oviposition, Tephritidae 960.
pheromones, tropical environment, conferences, Insecta 1123.
pheromones, tropical environment, Insecta 958.
population levels monitoring, pheromone traps, *Aonidiella aurantii* 596.
sex pheromone, eudemone, *Lobesia botrana* 198.
sex pheromone, pheromone traps, adhesives, *Agrotis segetum* 1325.
sex pheromone, pheromone traps, Spodoptera littoralis 598.
trapping, pheromone traps, ammonium carbonate, *Dacus oleae* 974.
use mating behavior disruption, sex pheromone, *Pectinophora gossypiella*, Egypt, Arab Rep. 201.
use, methoprene stimulation aggregation pheromone production, stored products, Coleoptera 606.
use, sex pheromone, Insecta, conferences 375.
use, sex pheromone, Z-7-tetradecenal, Prays oleae 193.
- Pest resistance,**
host plants, kairomones, oviposition, *Cajanus cajan*, *Heliothis armigera* 166.
role, plant extracts, volatiles, *Oryza sativa*, *Nilaparvata lugens* 180.

- Pest status,**
monitoring, pheromone traps, aggregation pheromone, *Ips typographus*, *Trypodendron lineatum* 962.
monitoring, pheromone traps, sex pheromone, *Lymantria monacha* 961.
- Pesticides,**
effects on attractancy, pheromone traps, *Orygia pseudotsugata*, *Choristoneura occidentalis*, *Eucosma sonomana* 188.
Pesticides (organophosphorus),
taste aversion learning, rats 1016.
- Pests,**
population levels, monitoring, pheromone traps, *Cryptophlebia batrachopa*, *Cryptophlebia leucotreta*, Malawi 583.
- Petromyzon marinus,**
magnesium dependent N-methyl-D-aspartic acid induction, locomotion, spinal cord 1202.
- Petroseum crispum,**
essential oils recovery 702.
- Pexicopia malvella,**
pheromone traps, attractants, monitoring flight activity 968.
- pH,**
acidic effects on flavor, fermentation, cocoa beans 716.
effects on diacyl production, flavor compounds, dairy starters, lactic acid bacteria 1462.
- Phaeophyta,**
spermatzoa, cyclophorene, hormoisirene, Australia 1227.
- Phagocytes,**
chemotactic defects, thymomegaly, children 419.
- Phagostimulants,**
amino acid composition, effects on feeding behavior, *Dacus oleae* 1294.
amino acids receptors, *Leptinotarsa decemlineata* 399.
Coccotrypes dactyliperda, plant extracts, *Phoenix dactylifera* 930.
feeding behavior, *Pandalus borealis* extracts, *Gadus morhua* 656.
identification, *Gossypium hirsutum*, *Anthonomus grandis* 566.
sugars, *Allium cepa*, *Hylemya antiqua* 554.
- Phaeosolus vulgaris,**
agglutinin, axonal transport, synapses, morphology, ventral striatal cells, olfactory tubercle, rats 54.
- Pharmida,**
defense secretions, pheromones, actinidine, isolation 615.
- Pheidole bicarinata,**
caste determination, larvae, inhibition, adults, role, contact pheromones 613.
- Phenols,**
attractants, kairomones, urine, *Synecerus caffer*, *Glossina pallidipes* 967.
flavor compounds, chemical composition, high-pressure liquid chromatography, wine 306.
- 2-Phenylethanol,**
aroma compounds, grapes 1056.
- Phenylthiocarbamide,**
comparison, reaction time, taste discrimination, man 28.
- Phenylthiourea,**
taste perception deficiency, population genetics, gene frequency, man, Jordan 418.
- Pheromones,**
mounting, isolation, vagina mucus, estrus, cattle 1000.
- Pheromone emission,**
calling behavior, temperature, photoperiod, effects on, *Holomelina lamae* 921.
- Pheromone traps,**
aggregation behavior, attractants, *Orthotomicus erosus* 982.
aggregation pheromone, attractancy, *Pityogenes chalcographus*, pheromones 964.
aggregation pheromone, pest status, monitoring, pest control, *Ips typographus*, *Trypodendron lineatum* 962.
attractancy, *Begonia solieri*, *Gortyna xanthenes*, *Heliothis armigera* 1315.
attractancy, *Choristoneura occidentalis* 586.
attractancy, isomers, 2-butyl-(Z)-7-tetradecanoate, *Harrisina americana*, *Acolithus falsarius* 1342.
attractancy, mathematical models, insecta 955.
attractancy, *Ostrinia nubilalis* 1281.
attractancy, (Z)-7,9-dodecadienyl acetate, *Epinotia* 601.
attractants, monitoring, flight activity, *Pexicopia malvella*, *Platyedra subcinerea* 968.
bait, sex pheromone, *Dacus oleae* 969.
catches, detection dispersal, *Coleophora laricella* 595.
catches, environmental conditions effects on, *Cydia pomonella* 978.
catches, females, *Argyrotaenia citrana* 552.
catches, *Malus orchards*, *Adoxophyes orana fasciata*, Japan 582.
catches, relationship, dispersal, *Grapholita molesta*, *Archippus brevipalpus*, *Carpocapsa niponensis* 594.
catches, species composition, biological control, *Ips typographus* 1319.
chemical communication, attractancy, *Lepidopterus varius*, *Hylurgops palliatus*, *Dryocetes autographus* 144.
correlation, population levels, *Tortrix viridana* 592.
Dendroctonus ponderosae, *Pinus contorta*, semiochemicals, pest control 1287.
design, catches, *Ceratitis capitata* 1324.
design, catches, host specificity, *Xestia c-nigrum*, *Agrotis segetum* 1331.
detection, pest control, *Anthonomus grandis*, Paraguay 959.
(E)-7-(Z)-9-dodecadienyl acetate, vineyard population density, *Lobesia botrana* 1309.
(E)-3,5-tetradecadienyl acetate, height, relationship catches, *Acossus centensis* 186.
efficacy, height, *Trypodendron lineatum* 585.
efficacy population dynamics, surveys, *Ephestia elutella* 190.
efficacy, trimedure, males, *Ceratitis capitata* 593.
grandiure, pest control, *Anthonomus grandis*, USA 958.
height, effects on catches, *Spodoptera litura* 187.
infestation, *Olea europaea*, Prays oleae 976.
+insecticides, monitoring, population levels, *Lepidoptera* 987.
integrated control, *Dacus oleae*, *Ceratitis capitata*, *Sardinia* 1328.
integrated control, *Lycopersicon esculentum*, *Heliothis zea*, USA, California 1321.
integrated control, *Spodoptera littoralis*, Israel 953.
Ips cembrae, biological control, *Gnathotrichus materiarius*, Larix kaempferi 1320.
monitoring, emergence, *Quadrastipitoides perniciosus* 1339.
monitoring, flight activity, *Coleophora laricella* 573.
monitoring, population levels, adults, *Anticarsa gemmatilis* 591.
monitoring, population levels, *Cylas formicarius elegantulus* 1282.
monitoring, population levels, grain, *Cryptolestes ferrugineus* 609.
monitoring, population levels, pasture, *Spodoptera frugiperda*, French Guiana 957.
- Pheromone traps, (continued)**
monitoring, population levels; *Pectinophora scutigera*, Australia, Queensland 607.
monitoring, population levels, pest control, *Aonidiella aurantii* 596.
pest control, *Dacus oleae* 1326.
pest control, *Malus orchards*, *Cydia pomonella* 584.
pest control, *Olea europaea*, *Arthropoda*, books 1125.
pest control, *Tephritidae*, conferences 1496.
pest status, monitoring, pest control, *Lymantria monacha* 961.
pesticides effects on attractancy, *Orygia pseudotsugata*, *Choristoneura occidentalis*, *Eucosma sonomana* 188.
population dynamics, dispersal, *Choristoneura murinana*, France 963.
predictions, emergence, *Malus orchards*, *Quadrastipitoides perniciosus*, USA, Virginia 963.
relationship, flight activity, *Ips typographus* 608.
sex pheromone, adhesives, pest control, *Agrotis segetum* 1325.
sex pheromone, biological control, *Dacus oleae*, *Olea* 1310.
sex pheromone, efficacy, *Adoxophyes orana* 1332.
sex pheromone, efficacy, monitoring, pests population density, *Choristoneura fumiferana* 1334.
sex pheromone, factors affecting catches, *Choristoneura fumiferana* 1341.
sex pheromone, infestation predictions, Prays oleae 977.
sex pheromone, insecta 605.
sex pheromone, +insecticides, integrated control, *Dacus oleae* 1333.
sex pheromone, integrated control, vineyards, *Lobesia botrana*, Italy, Lazio 195.
sex pheromone, monitoring, *Dacus oleae* 970.
sex pheromone, monitoring, flight activity, *Choristoneura lafauryana*, Italy, Emilia-Romagna 981.
sex pheromone, pest control, *Spodoptera* 974.
sex pheromone, pest control, *Spodoptera littoralis* 598.
sex pheromone, Prays oleae, Spain 972.
synthetic sex pheromone, catching methods, comparison, efficacy, *Diatraea grandiosella* 1343.
synthetic sex pheromone, climatic conditions, *Agrotis segetum* 984.
synthetic sex pheromone, larvae population density, *Rhyacionia buoliana*, *Pinus sylvestris* 925.
Z-7-tetradecenal, pest control, Prays citri, Sicily 194.
use, monitoring, population levels, *Anarsia lineatella*, USA, California 604.
use, sex pheromone, *Cochylis hospes* 1337.
- Pheromones,**
actinidine, defense secretions, isolation, *Pharmida* 615.
affinity, biosensor, *Vibrio harveyi*, *Vibrio fischeri* alkalane monooxygenase (FMN-linked), *Antheraea pernyi*, *Heliothis armigera* 1238.
analogs, effects on oviposition, *Lasioderma serricorne* 895.
antagonists, effects on aggregation behavior, mating behavior, *Lasioderma serricorne* 919.
antifeedants, biosynthesis, insecta, pest control, plant breeding, crops 943.
antipheromones, (E,E)-8,10-dodecadienyl-1-ol acetate, disruption, chemical communication, *Cydia pomonella* 1330.
attractancy, aggregation pheromone, pheromone traps 964.
attractancy, inhibition, synthetic intermediates, *Anthonomus grandis* 670.
attractancy, mating behavior, adaptiveness, *Phthorimaea operculella* 153.
binding, hydrolysis, enzymatic activity, *Antheraea polyphemus* 887.
biological control, *Lobesia botrana*, *Cydia ambigua* 979.
biosynthesis, association, food intake, pyrazinoid alkaloids, *Creatonotos gangis*, *Creatonotos transiens* 509.
blocking, implantation, prolactin enhancement effects on, mice 1358.
blocking, pregnancy, role, brain stem norepinephrine projections, olfactory bulb (accessory), mice 211.
2-butyl-(Z)-7-tetradecanoate, isomers attractancy, *Harrisina americana*, *Acolithus falsarius* 1342.
chemical communication, biochemistry, insecta 896.
chemical communication, olfactory perception, *Invertebrata* 619.
chemical composition, attractancy, host plants, *Ulmus americana*, *Hylurgopinus rufipes*, *Scolytus multistriatus* 941.
chemical composition, attractancy, *Vespula maculifrons*, *Podisus fretus* 939.
chemical composition, defense secretions, insecta 207.
chemistry, configurations, gametes, *Syringoderma phinneyi* 1226.
chemoreception, *Gammarus pulex* 508.
chemoreceptors, cells electrophysiology characterization, olfactory system, *Ips typographus*, *Thanasimus formicarius* 376.
chirality, *Ips pini*, *Api mellifera*, *Cryptolestes ferrugineus* 524.
cis-vaccenyl acetate, association, inhibition, courtship, *Drosophila melanogaster* 879.
conferences, biochemistry 1124.
contact, role, caste determination, larvae, *Pheidole bicarinata* 613.
controlled release, kinetics, biological control, insecta 182.
defensive behavior, *Oronectes virilis* 616.
delay, puberty, females 1364.
detection, antennal sensilla, neurophysiology, morphology, *Trichoplusia ni* 1128.
detection, role, courtship, males, *Phidippus johnsoni* 1254.
deterrents, effects on oviposition, *Pieris brassicae* 1322.
deterrents, oviposition, *Rhagoletis cerasi* 508.
2,6-dichlorophenol, levels, relationship, feeding, *Rhipicephalus appendiculatus* 542.
2,6-dimethyl-2,5-heptadiene, photooxidation, *Pseudococcus comstocki* 671.
dispersal, role, secretions, secretions, prothorax glands, *Datana ministra* 1172.
dissemination, functional morphology, rectum epithelium, anus glands, *Ceratitis capitata* 920.
Dufour's gland secretions, host selection, superparasitism, *Nemeritis canescens* 902.
effects on development, *Caenorhabditis elegans* mutants 534.
effects on larvae development, *Caenorhabditis elegans* 988.
electroantennograms, *Dendroctonus ponderosae* 1258.
electrophysiology, olfactory perception, receptors, *Trichoplusia ni* 806.
enantiomers, frontal, olfactory perception, *Dendroctonus pseudotsugae* 379.
estrus regulation, role ovary hormones, chemical communication, mice 995.
feces containing, mother, offspring ingestion, rats 231.
formulations, physicochemical properties, gas chromatography, methodology, insecta 1492.
host searching behavior, *Diadromus pulchellus* 934.
induction, sucking behavior, role, vomeronasal organs, rabbits 1029.
large hermaphroditic duct homogenates, induction, copulation, *Aplysia fasciata* 150.
males, electroantennograms, *Anastrepha ludens* 751.
males induction estrus, females, mice 1361.

Pheromones, (continued)

- metabolism, acetate esterase, alcohol oxidase, aldehyde dehydrogenase, *Heliobius virescens* 892
- metabolism, aldehyde dehydrogenase, cuticle, *Choristoneura fumiferana* 754.
- Nematoda, chemical communication, pest control 151.
- nest recognition, *Atta cephalotes* 621.
- 3,13-octadecadien-1-ol, response, males, *Synanthedon exitiosa*, *Synanthedon pictipes* 200.
- offspring responsiveness mother, mother-offspring interactions, rats 226.
- olfactory discrimination, *Eumeces laticeps* 1035.
- olfactory stimuli deprivation, survival, abnormal behavior, *Salmo salar* 660.
- oviposition, deterrents, kairomones, *Pieris rapae*, *Pieris brassicae* 896.
- pest control, tropical environment, conferences, *Insecta* 1123.
- pest control, tropical environment, *Insecta* 956.
- plumes, quantitation, horizontal coverage, *Insecta* 204.
- queens, dominance, social organization, colonies, *Apis mellifera* 991.
- (3R,4S)-4-methyl-3-hexenol, synthesis, *Tetramorium impurum* 668.
- release, controlled release, biological control, *Insecta* 183.
- release, rubber septa, predictions 1493.
- role, feeding, mating, oviposition, pest control, *Tephritidae* 960.
- role, leaves transport, characterization, purification, *Atta cephalotes* 936.
- role, sexual intercourse inducers, ovulation, rats 624.
- saliva, puberty, males, pigs 1356.
- secretions, mandibular glands, ultrastructure, queens, *Apis mellifera* 810.
- structure-activity relationships 1050.
- structure-activity relationships, chemoreceptors, antennae, *Insecta* 994.
- synergism, octadecadienyl acetates, trapping, *Sesidae* 1327.
- synthesis, chemical composition, *Grapholitha molesta* 274.
- synthesis, chirality, *Insecta* 273.
- synthesis, use solar radiation, 4-methyl-3-heptanone 1044.
- synthesis, (2R,3S)-2-hydroxy-3-methyl-(E)-4-hexenoic acid.
- (R)-1-methyl-(E)-2-butan-1-yl hydroxyacetate, chirality, enantiomers 1049.
- synthetic, attractancy, *Ips typographus* 946.
- use, integrated control, *Zeiraphera*, Canada 1317.
- use, migration, *Salvelinus alpinus* 1037.
- Pheroprax**,
attractants, effects on flight activity, *Ips typographus* 572.
- Phestilla sibogae**,
metamorphosis, larvae, induction, *Porites compressa* chemicals 990.
- Phidippus johnsoni**,
courtship, role, pheromones detection, males 1254.
- Phlebotomus papatasi**,
aggregation pheromone, females, mouthparts 551.
- Phococina phococina**,
olfactory system development 427.
- Phoenix dactylifera**,
plant extracts, phagostimulants, *Coccotrypes dactyliperda* 930.
- Phorol 12-myristate 13-acetate**,
induction chemotaxis leukocytes (neutrophilic), polymyxin B effects on, rabbits 851.
- Phormidium tenue**,
odors, 2-methylisoborneol, odor pollution, lakes 708.
- Phormidium uncinatum**,
chemotaxis, calcium transport, cyclic GMP 492.
- Photography**,
chemotaxis, sexual behavior, in vitro, *Schistosoma mansoni* 1266.
- Photoxidation**,
2,6-dimethyl-2,5-heptadiene, pheromones, *Pseudococcus comstocki* 671.
- Photoperiod**,
effects on calling behavior, pheromone emission, *Homolomena lamae* 921.
- photoperiod, calling behavior, circadian rhythms, *Marasma configurata* 1270.
- role, urine odors effects on puberty, females, mice 223.
- short, induction, anestrous, olfactory bulb ablation prevention, hamsters 1173.
- Phthorinae operculiella**,
mating behavior, attractancy, pheromones, adaptiveness 153.
- Physarum polycephalum**,
chemotactic factors, polarization cell membranes, chemotaxis 131.
- Physostigmine**,
comparison, soman, effects on taste aversion learning, rats 264.
- Phytophthora cinnamomi**,
zoospores chemotaxis, disease resistance, susceptibility, roots exudates, glutamic acid, arginine, *Vitis vinifera* 1231.
- Picea abies**,
forest residues, attractancy, *Ips typographus* 946.
- pest attack, aggregation pheromone effects on, walking, *Ips typographus* 1292.
- Pieris brassicae**,
antifeedants, plant extracts 557.
- chemoreception, leg, ovipositor, oviposition deterrents, electrophysiology 804.
- pheromones, deterrents, kairomones, *Pieris rapae* 896.
- pheromones, deterrents, effects on oviposition 1322.
- plant extracts, effects on, feeding, oviposition 928.
- Pieris rapae**,
chemoreceptors, sensilla, labial palps, ultrastructure 380.
- oviposition, deterrents, pheromones, kairomones, *Pieris brassicae* 896.
- Pigeons**,
homing behavior, role, magnetic fields, olfactory stimuli, reviews 1393.
- homing behavior, role, olfactory stimuli 1385.
- magnetic fields effects on navigation behavior, role, odors 1389.
- odors, magnetic fields, role, navigation behavior, reviews 1387.
- odors, role, navigation behavior 1388.
- olfactory stimuli deprivation+visual deprivation effects on, homing behavior 1391.
- olfactory stimuli effects on range, homing behavior 1392.
- Pigs**,
aerobic bacteria use odor pollution control, surnias 1441.
- endothelium cells migration behavior, ADP, adenosine, adenine 839.
- odor pollution control, feces 1434.
- odor pollution control, feces 1448.
- odor pollution control, use aeration, surnias 1439.
- odor pollution control, use aeration, surnias 1440.
- odor pollution, surnias 1456.
- saliva pheromones, puberty, males 1356.
- taints, androstene, submaxillary gland 1095.
- urine odors, 5 α -androst-16-ene-3-one, induction, aggressive behavior, mice 630.
- Pilophorus perplexus**,
scent gland, secretions, chemical composition 1344.
- α -Pinene**,
attractancy, *Trypodendron lineatum*, *Trypodendron domesticum* 603.
- D-Pinitol**,
deterrents, oviposition, host plants, *Eurema hecabe mandarina* 139.
- Pinus contorta**,
pest control, semiochemicals, pheromone traps, *Dendroctonus ponderosae* 1287.
- Pinus elliotii**,
pest attack, chemical stimuli, monoterpenes, turpentine, paraquat, attractancy 966.
- Pinus sylvestris**,
host plants volatiles, attractancy, traps, catches, *Hylobius abietis* 1293.
- semiochemicals, monoterpenes, hydrocarbons, role host selection, colonization, *Tomicus piniperda*, Germany, Fed. Rep., Harthem 1279.
- synthetic sex pheromone, pheromone traps, larvae population density, *Rhyacionia buoliana* 925.
- Piper nigrum**,
chemical composition, volatiles, oils 1062.
- 2,5-Piperazinedione**,
structure-activity relationships, chirality, bitterness 307.
- Pisces**,
chemoreception, pollutants effects on 1036.
- pollutants effects on chemotactic response, macrophages, kidney 1212.
- pollutants effects on macrophages chemotaxis, phagocytosis 1211.
- Pissodes approximatus**,
aggregation pheromone, grandisil, grandisil, interspecific attractancy, *Pissodes strobi*, *Pissodes nemorensis* 1301.
- Pissodes nemorensis**,
aggregation pheromone, grandisil, grandisil, interspecific attractancy, *Pissodes strobi*, *Pissodes approximatus* 1301.
- Pissodes strobi**,
aggregation pheromone, grandisil, grandisil, interspecific attractancy, *Pissodes approximatus*, *Pissodes nemorensis* 1301.
- Plum sativum**,
saponin, off flavor 338.
- Pittfall traps**,
bait, methodology, *Insecta* 189.
- Pityogenes chalcographus**,
attractancy, aggregation pheromone, pheromone traps 964.
- Platyolure**,
sex pheromone, mating disruption, pest control, *Thaumetopoea wilkinsoni* 1336.
- Placenta**,
chemotaxis factors effects on vascular system endothelium, man 125.
- Plagiodera versicolora**,
feeding behavior deterrents, monoterpenes, defense secretions 1273.
- Planococcus citri**,
sex pheromone synthesis 1038.
- Plant breeding**,
crops, biosynthesis, antifeedants, pheromones, pest control, *Insecta* 943.
- taste panel evaluation, *Ipomoea batatas* 738.
- Plant extracts**,
antifeedants, bioassays, *Melanotus communis* 163.
- antifeedants, chemical composition, *Typhopora asthmatica*, *Spodoptera litura* 929.
- antifeedants, clerodane diterpenoids, *Ajuga*, *Spodoptera littoralis* 563.
- antifeedants, *Pieris brassicae* 557.
- antifeedants, *Vismia*, *Noctuidae*, *Acridae* 561.
- bioassays, oviposition stimulants, *Citrus natsudaidai*, *Papilio protenor* 1256.
- effects on, feeding, oviposition, *Pieris brassicae*, *Plutella xylostella* 928.
- Phoenix dactylifera, phagostimulants, *Coccotrypes dactyliperda* 930.
- volatiles, effects on food preferences, role pest resistance, *Oryza sativa*, *Niaparvata lugens* 180.
- Plasma**,
blood fermentation, effects on organoleptic evaluation, sausages, cattle 1479.
- fibronectin, chemotactic factors, N-formyl-methionyl-leucyl-phenylalanine, leukocytes (neutrophilic) 102.
- inhibitors, monocytes chemotaxis, cervix carcinoma, man 411.
- Plasma membranes**,
N-formyl-peptides receptors, leukocytes (polymorphonuclear), man 1206.
- Platelet-activating factor**,
chemotaxis, leukocytes (neutrophilic), calcium flux, GTP-binding protein regulation, man 472.
- Platelet-derived growth factor**,
cortex, astrocytes, chemotactic response, rats 132.
- genes, cloning, gene expression, *Saccharomyces cerevisiae*, induction, chemotaxis, 3T3 cells 495.
- Platelets**,
role leukocytes (neutrophilic) chemotaxis inhibition, man 841.
- Platyedra subcineria**,
pheromone traps, attractants, monitoring flight activity 968.
- Platyptilia carduidactyla**,
sex pheromone release, (Z)-11-hexadecanal, reproductive isolation, *Platyptilia williamsi* 152.
- Platyptilia williamsi**,
sex pheromone release, (Z)-11-hexadecanal, reproductive isolation, *Platyptilia carduidactyla* 152.
- Plectranthus barbatus**,
antifeedants, isolation, biological control, *Schizaphis graminum* 581.
- Pleuronectes platessa**,
chemotaxis, leukocytes, inflammation, mediators 1222.
- Pleurotus sapidus**,
fruit bodies, preservatives, organoleptic evaluation 324.
- Plodia interpunctella**,
sex pheromone, interspecific attractancy, *Pyralidae* 897.
- Plotosus anguillaris**,
ramus mandibularis projections, facial lobe 1197.
- Plusia chalcites**,
calling behavior, sex pheromone, reproduction 1368.
- Plusiinae**,
sex pheromone, taxonomic significance, chemical composition 923.
- Plutella xylostella**,
plant extracts, effects on, feeding, oviposition 928.
- Pneumonia**,
leukocytes (polymorphonuclear), chemotaxis, skin window, man 1168.

Subject Index

- Podius fretus**,
pheromones, chemical composition, attractancy, *Vespa maculifrons* 939.
- Poephila guttata castanotis**,
taste aversion learning, food intake, azodrin, iso-octyl
2,4-dichlorophenoxyacetate 653.
- Polarization**,
cell membranes, chemotactic factors, chemotaxis, *Physarum polycephalum* 131.
cell membranes, glycoproteins role monocytes chemotaxis 99.
- Polistes fuscatus**,
chemical stimuli, role, recognition, conspecifics, sex, males 205.
- Poly(L-arginine)**,
+lectins + calcium ionophores, leukocytes (polymorphonuclear) chemiluminescence, blood, man 109.
- Pollination**,
role, semiochemicals, *Andrena fuscipes*, *Ophrys lutea* 1302.
- Pollutants**,
effects on chemotactic response, macrophages, kidney, *Pisces* 1212.
effects on chemotaxis, phagocytosis, macrophages, *Pisces* 1211.
water pollution, effects on chemoreception, *Pisces* 1036.
- Pollution control**,
hydrogen sulfide, odors, sewage treatment, water quality 1459.
odor control 1080.
- Polygraphus poligraphus**,
bait, attractancy, frontalini, terpinene-4-ol 191.
- Polymyxin B**,
effects on leukocytes (neutrophilic) phorbol 12-myristate 13-acetate induction chemotaxis, rabbits 851.
- Polysphondylium violaceum**,
actin role, ectoskeleton, relationship, chemotaxis 121.
N-propionyl- γ -L-glutamyl-L-ornithine- δ -lactam ethyl ester, chemotaxis 122.
- Polytomella magna**,
niflavin effects on chemotaxis 119.
saffron effects on chemotaxis 1232.
- Popillia indigonacea**,
sex pheromone, attractants 1313.
- Popillia japonica**,
sex pheromone, attractants 1313.
sex pheromone, chemical composition, chirality, detection methodology 1118.
sugars, effects on feeding behavior 1278.
trapping, attractants, South Africa 1276.
- Popillia taiwana**,
sex pheromone, attractants 1313.
- Population density**,
larvae, synthetic sex pheromone, pheromone traps, *Rhyacionia buoliana*, *Pinus sylvestris* 925.
vineyards, pheromone traps, (E)-7,[(Z)-9-dodecadienyl acetate, *Lobesia botrana* 1309.
- Population dynamics**,
dispersal, pheromone traps, *Choristoneura murinana*, France 963.
surveys, efficacy, pheromone traps, *Ephestia elutella* 190.
- Population genetics**,
gene frequency, taste perception deficiency, phenylthiourea, man, Jordan 418.
- Population levels**,
monitoring, pest control, pheromone traps, *Anodiella aurantii* 596.
monitoring, pests, pheromone traps, *Cryptophlebia batrachopa*, *Cryptophlebia leucotreta*, Malawi 583.
monitoring, pheromone traps + insecticides, *Lepidoptera* 987.
monitoring, pheromone traps, adults, *Anticarsia gemmatilis* 591.
monitoring, pheromone traps, *Cylas formicarius elegantulus* 1282.
monitoring, pheromone traps, grain, *Cryptolestes ferrugineus* 609.
monitoring, pheromone traps, pasture, *Spodoptera frugiperda*, French Guiana 957.
monitoring, use, pheromone traps, *Anarsia lineatella*, USA, California 604.
pheromone traps, monitoring, *Pectinophora scutellera*, Australia, Queensland 607.
sampling, pheromone traps, *Choristoneura fumiferana* 599.
- Population studies**,
sex pheromone chemical composition variation, ecological evaluation, *Agrotis segetum*, Europe 885.
- Populations**,
recognition, chemoreception, *Oncorhynchus kisutch* 635.
- Populin**,
feeding stimulants, isolation, *Salicaceae*, *Chrysomelidae* 160.
- Pores**,
antennal sensilla, ultrastructure, chemoreceptors, *Yponomeuta vigintipunctatus*, *Yponomeuta cagnagellus*, *Adoxophyes orana* 421.
- Porites compressa**,
chemicals, induction, metamorphosis, larvae, *Phostilla sibogae* 990.
- Pork**,
cooking conditions effects on volatiles 289.
fats content effects on, organoleptic evaluation 348.
lipids degradation, role of flavor 1096.
odors, boar taints, testosterone implants effects on 1473.
off flavor, cooking, curing, freezing 337.
sausages, flavor, comparison fish sausages, taste panel evaluation 344.
sausages, soy flour effects on, organoleptic evaluation 356.
sodium chloride, sucrose, storage effects on, organoleptic evaluation 364.
vacuum packaging + temperature.
- Posteroventral nucleus**,
taste neurons, oral cavity, rats 63.
- Potassium**,
membrane potential, taste cells, *Rana* 395.
- Potassium benzoate**,
taste cells response, rats 1150.
- Potassium phosphate**,
ripening, effects on cheese flavor, Cheddar cheese 719.
- Potassium sorbate**,
effects on flavor, sweetness, pasteurized milk 710.
- Potatoes**,
glycoalkaloids, organoleptic evaluation 1115.
- Potentiation**,
taste mediation, aversion learning, environments, rats 1017.
- Prays citri**,
pheromone traps, Z-7-tetradecenal, pest control, Sicily 194.
- Prays oleae**,
infestation, pheromone traps, *Olea europaea*, Italy, Campania 976.
integrated control, pest control, pheromone traps, attractants, repellents, *Olea europaea* 973.
- Prays oleae**,
pest control, use, sex pheromone, Z-7-tetradecenal 193.
pheromone traps, sex pheromone, infestation predictions 977.
pheromone traps, sex pheromone, Spain 972.
- Predation**,
defensive mechanisms, mimicry, olfactory stimuli, pyrazines, *Danaus plexippus*, *Zygana ioniceae*, *Amata* 1272.
feeding behavior deterrents, defense secretions, *Plagioderia versicolora* 1273.
susceptibility, estrus, olfactory stimuli, *Peromyscus maniculatus bairdi*, *Mustela nivalis* 268.
- Predator-prey interactions**,
body odors, effects on feeding behavior, *Gulo gulo*, *Lepus americanus* 1026.
chemical communication, *Meriones unguiculatus*, cats 1033.
- Predatory aggression**,
olfactory stimuli suppression, *Onychomys torridus* 1379.
- Predatory behavior**,
kairomones, *Neverita didyma* 1288.
olfaction correlation, imprinting, *Mustela furo* 1381.
olfactory discrimination, chemical stimuli, water flow, *Urosalpinx cinerea* 560.
role, chemical perception, *Scincella lateralis* 1031.
role, olfactory stimuli, *Crotalus viridis* 652.
- Pregnancy**,
effects on salts taste perception, man 795.
pheromones blocking, role, brain stem norepinephrine projections, olfactory bulb (accessory), mice 211.
serum effects on chemotaxis, leukocytes, man 84.
testosterone role olfactory stimuli effects on blocking factors, mice 625.
- Preoptic area**,
vasopressin, arginine- injection, induction, scent marking behavior, role, scent gland, hamsters 1370.
- Preputial gland**,
secretion, odors, imprinting, males, mice 216.
- Preservation**,
salts, nitrate effects on odors, fishery products, *Clupea* 328.
salts, nitrate effects on organoleptic evaluation, fishery products, *Clupea* 329.
- Preservatives**,
organoleptic evaluation, fruit bodies, *Pleurotus sapidus* 324.
- Prey**,
odors, imprinting, olfactory bulb morphology, *Mustela furo* 1179.
- Prionoxystus robiniae**,
attractants, synthesis, synergism, (Z,E)-3,5-tetradecadienyl acetate 907.
- Proboscidea**,
olfaction, role, social behavior, scent gland, anatomy 247.
- Procambius clarkii**,
chemoreception, conspecifics, self recognition, chemical communication 618.
- Progesterone**,
role, olfactory perception, effects on lordosis behavior, males, rats 213.
- Prolactin**,
enhancement, effects on pheromones blocking, implantation, mice 1358.
- Propionic acid**,
starter cultures, cheese flavor production, propionic acid bacteria immobilized cells 327.
- Propionic acid bacteria**,
immobilized cells, propionic acid starter cultures, cheese flavor production 327.
- N-Propionyl- γ -L-glutamyl-L-ornithine- δ -lactam ethyl ester**,
chemotaxis, *Polysphondylium violaceum* 122.
- Propyl propionate**,
semiochemicals, attractancy, traps design, *Glioscichilus quadrisignatus* 1283.
- Proteinase**,
Aspergillus oryzae, effects on maturation Cheddar cheese, cheese flavor 1085.
Hordeum vulgare, cheese ripening, cheese flavor, off flavor 1466.
- Proteins**,
amino acid sequence, olfactory system, reviews 814.
binding flavor compounds, bovine serum albumin, whey 690.
binding, tertiary structure, stereospecificity, active transport, chemotaxis, periplasmic space, gram-negative bacteria 668.
chemoreceptors, genes, *Salmonella typhimurium* 135.
chemotaxis, genes, amino acid sequence predictions, nucleotide sequence, *Escherichia coli* 480.
chemotaxis, *Tetrahymena thermophila* 117.
sensing flavor compounds, bovine serum albumin, whey 690.
filaments, neurons containing vimentin, olfactory epithelium, rats 65.
food selection, olfactory bulb ablation effects on, rats 394.
venom, immune system, leukocytes (neutrophilic) chemotaxis inhibition, *Loxosceles reclusa* 1210.
- Proteolysis**,
Bacillus licheniformis, methanethiol odors, cheese 727.
effects on flavor, fermentation, cocoa beans 716.
- Prothorax**,
glands, ultrastructure, secretions, *Datana ministra* 1172.
- Prunus**,
freezing, effects on, flavor 1469.
- Prunus amygdalus**,
chemical composition, tegument essential oils, nuts 315.
- Prunus mume**,
volatiles chemical composition 1052.
- Prunus persica**,
fruits, organoleptic evaluation, γ radiation effects on 355.
- Pseudaleia separata**,
isolation, characterization, *Apanteles kariyai* kairomones 931.
secretions, kairomones, host searching behavior, *Apanteles kariyai* 556.
- Pseudococcus comstocki**,
2,6-dimethyl-2,5-heptadiene, photooxidation, pheromones 671.
- Pseudomonas**,
chemotaxis, *Glycine max* seeds exudates 869.
hydroxylation, 2,6-lutidine, aroma compounds 302.
- Psidium guajava**,
fruits flavor 330.
fruits, volatiles aroma compounds 278.
- Psoriasis**,
benzoxapropen effects on monocytes chemotaxis, man 835.
chemotaxis, leukocytes (mononuclear), man 76.
estradiol effects on leukocytes (neutrophilic) chemotaxis, man 86.
lipoxygenase products, leukocytes chemotaxis, man 69.

- Puberty**,
adrenal gland effects on sex pheromone, females, mice 623.
olfactory stimuli acceleration, females, mice 215.
pheromones delay, females 1364.
saliva pheromones, males, pigs 1356.
urine odors effects on, role, photoperiod, food deprivation, females, mice 223.
vomeronasal organ role, urine odors mice, effects on 219.
- Pungent**,
antifeedants, synthesis, efficacy, *Choristoneura fumiferana* 1041.
- Pyralidae**,
sex pheromone, pheromone traps, attractancy 602.
- Pyrazines**,
olfactory stimuli, predation, defensive mechanisms, mimicry, *Danaus plexippus*,
Zygaena lonicerae, Amata 1272.
role potatoes odor, *Serratia*, *Cedecia* 301.
- Pyridine**,
olfactory perception, man 794.
- Pyrrrolizidine alkaloids**,
food intake, association, scent gland, regulation, pheromones, biosynthesis,
Creatonotus gangis, *Creatonotus transiens* 509.
- Quadraspidiotus perniciosus**,
sex pheromone synthesis 667.
emergence, predictions, pheromone traps, USA, Virginia 983.
pheromone traps, monitoring, emergence 1339.
- Queens**,
dominance, social organization, colonies, pheromones, *Apis mellifera* 991.
- Quinine**,
effects on taste irritation, man 793.
- (3R,4S)-4-Methyl-3 hexenol**,
synthesis, synthetic pheromones, *Tetramorium impurum* 668.
- Rabbits**,
amoxicillin+doxycycline effects on leukocytes (granulocytic) chemotaxis 446.
Bordetella pertussis toxins effects on chemotaxis, leukocytes (neutrophilic) 71.
characterization, affinity labelling, chemoreceptors, leukocytes (neutrophilic) 437.
chemoreceptors, cigarette smoke 21.
chemoreceptors, leukocytes (neutrophilic), peritoneum 432.
conditioned response, odors stimuli, correlation EEG activity, olfactory bulb 1142.
cytochalasin A effects on chemotaxis, leukocytes (neutrophilic) 92.
copamine effects on activity, chemoreceptors, carotid body 402.
electron microscopy, papillae, cells, taste 1199.
endotoxins effects on monocytes chemotaxis, eye 860.
olfactory discrimination learning, EEG, olfactory bulb 3.
olfactory stimuli, tactile stimuli, role, breast feeding, neonates 230.
pertussis toxins role leukocytes (neutrophilic) chemotaxis inhibition, peritoneum 845.
pheromones induction, suckling behavior, role, vomeronasal organs 1029.
polymyxin B effects on leukocytes (neutrophilic) phorbol 12-myristate 13-acetate induced chemotaxis 851.
- Radiation**,
effects on olfactory perception, feeding behavior, *Ceratitis capitata*, *Anastrepha suspensa* 170.
- α Radiation**,
effects on beans, taste panel evaluation 345.
- γ Radiation**,
effects on cherries, taste panel evaluation 346.
effects on orange, chemical composition, *Allium sativum* 304.
effects on flavors, organoleptic evaluation 351.
effects on organoleptic evaluation, fruits, *Prunus persica* 355.
effects on volatile chemical composition, *Lycopersicon esculentum* 1059.
treatment, taste panel evaluation, minced meat+mayonnaise 734.
- Rana**,
camphor related molecules, unit activity, olfactory bulb 1135.
norepinephrine+calcium, role, taste organs 777.
olfactory bulb, afferent connections, telencephalon, anatomy 770.
olfactory nerve axons, endoplasmic reticulum regulation, calcium intracellular levels 56.
taste cells, membrane potential, potassium, sodium 395.
- Rana catesbeiana**,
gustatory stimuli, taste, chemoreceptors, distribution, papillae, tongue 1144.
magnesium binding sites characterization, tongue, taste perception 1145.
olfactory bulb, neurons, dendrites, microtubules, ultrastructure 48.
tongue, perfusion, electrophysiological recording, membrane potential, taste buds cells 1195.
- Rana sphenoccephala**,
amino acids, taste 1152.
- Rana temporaria**,
amino acids stimulation olfactory bulb 764.
serotonin role taste receptors 778.
- Rancidity**,
hydrogen peroxide effects on flavor, ghee 729.
- Ras cheese**,
effects on cheese organoleptic properties 736.
- Rats**,
adenosine A1 receptors, mediation, adenosine inhibition, cortex (olfactory) 15.
breeding taste aversion learning ability 1025.
γ-aminobutyric acid inhibition, muricide, olfactory bulb 767.
amygdala lesions effects on olfactory discrimination 4.
anesthesia induction, taste aversion 1020.
asbestos inhalation, macrophages chemotaxis, lung 1207.
aspartame, taste preferences 1030.
aversion, denatonium saccharide 1373.
breeding taste aversion learning ability 1025.
caffeine induction, taste aversion 639.
carbachol, angiotensin II microinjection, septum, effects on taste preferences 270.
chemoreceptors, carotid sinus, role sleep respiration rhythms, neonates 23.
- Rats, (continued)**
chemotaxis, tumor cells, mammary gland 106.
conditioned inhibition, taste aversion learning 1021.
conspicuous odors, association, reinforcement, paper flooring in alleyway 1377.
cortex (anterior insular gustatory) lesions, effects on taste discrimination 19.
drugs induction, taste aversion learning, similarity, symptoms 640.
feces containing pheromones, mother, offspring ingestion 231.
flavor experience effects on taste aversion learning 1024.
fluprazine hydrochloride effects on olfactory preferences 1374.
N-formyl-methionyl-leucyl-phenylalanine+N-formyl-norleucyl-leucyl-phenylalanine role colitis, leukocytes (neutrophilic) 1220.
N-formyl-methionyl-phenylalanine receptors, leukocytes (neutrophilic), chemotaxis 77.
Harderian gland, role, conspecific odors control, maze learning 1376.
hippocampus lesions disruption, odor aversion learning 645.
hunger stimulation ethanol taste preferences 650.
hydroxyalkenals effects on chemotaxis, leukocytes (neutrophilic) 73.
hyperoxia effects on chemotactic agents, macrophages, lung 79.
hypothalamus (lateral), glucose metabolism, females odors effects on males 221.
hypoxia effects on, taste aversion learning 254.
leukocytes (polymorphonuclear) chemotaxis, antiinflammatory agents effects on 834.
macrophages chemotaxis, peritoneal exudate cells, dental manipulation 1208.
maturation, digestive tract, perception, stimuli, relationship, taste control, behavior 256.
morphine induction, taste aversion learning, role, cortex (insular) 642.
mother-offspring interactions induction, olfactory preferences, role, huddling, juveniles 227.
mother-offspring interactions, role, estrus olfactory stimuli 1005.
naloxone inhibition, saccharin dietary intake 778.
nerves, regeneration, taste buds 393.
nicotine effects on food intake, role, sweetness, nutritive value 267.
odor aversion learning, development 260.
odor aversion learning effects on 2-deoxy-D-glucose uptake, olfactory bulb, early experience 1178.
odors, early experience, enhancement, spatial discrimination learning 257.
odors enhancement, taste aversion learning, age 1023.
offspring responsiveness mother, mother-offspring interactions, pheromones 228.
olfaction, use, aversion learning, role, age 259.
olfactory bulb ablation effects on proteins food selection 394.
olfactory bulb, choline acetyltransferase activity, correlation muscarinic acetylcholine receptors binding, developmental stages 426.
olfactory bulb, development 425.
olfactory bulb, epithelium, 2-isobutyl-3-methoxyxypazine receptors binding, kinetics 47.
olfactory bulb ESB, discrimination 12.
olfactory bulb unit activity, odors, association, reinforcement 6.
olfactory discrimination, fluprazine hydrochloride effects on 1383.
olfactory epithelium ultrastructure 430.
olfactory preferences, role, early experience 271.
olfactory stimuli+taste stimuli potentiation, aversion learning 1378.
olfactory system, agglutinin receptors, binding, characterization 1140.
opiate receptors, type μ, type κ, agonists, reinforcing properties, piacta+taste preferences conditioning 253.
opsinization zymosan, chemotactic factors, leukocytes (polymorphonuclear) 91.
pesticides (organophosphorus), taste aversion learning 1016.
pheromones role, sexual intercourse inducers, ovulation 624.
physostigmine, comparison, soman, effects on taste aversion learning 264.
progesterone, role, olfactory perception effects on lordosis behavior, males 213.
role *Taenia taeniarformis* infection, chemotaxis, leukocytes (eosinophilic) 1215.
satin injection, ventricles (cerebral), effects on taste aversion learning, feeding behavior 841.
serotonin effects on feeding behavior, flavor compounds 654.
serotonin uptake inhibitors effects on avoidance learning, olfactory bulb lesions 643.
social interactions reversal, taste aversion learning 265.
stress conspecific odors, handling activation, defensive behavior 1367.
taste aversion, conditioned response, ethanol induction, amitrole inhibition, mechanisms 1014.
taste aversion, conditioned response, lithium induction, brain mediation 644.
taste aversion, conditioned response, nicotine induction, chlorisondamine intracerebroventricular administration, inhibition 1148.
taste aversion development 255.
taste aversion learning, conditioned response, acetaldehyde, interaction, morphine 261.
taste aversion learning, role, development, rodenticides 262.
taste buds denervation effects on ingestion, taste solutions 1028.
taste cells response, potassium benzoate 1150.
taste mediation, potentiation, overshadowing, aversion learning, environments 1017.
taste perception development, suckling behavior 224.
taste preferences, salts, drinking behavior, naloxone, antagonism sulpiride hyperdipsic activity 1149.
taste stimuli activation, feeding behavior, avoidance behavior, deterministic vs. probabilistic models 1032.
temperature effects on taste aversion learning 1019.
threonine effects on taste preferences 781.
toclopidine effects on leukocytes (neutrophilic) chemotaxis 441.
urine odors induction, lordosis behavior, feminized males 1353.
weaning factors affecting taste aversion learning development 258.
zimeldine induction, taste aversion learning, ethanol 1015.
- Reaction mechanisms**,
almitrine bisulfate, effects on chemoreceptors 785.
- Rebaudioside A**,
analogs, organoleptic properties 732.
- Receptors**,
chemotaxis, mutants, *Escherichia coli*, characterization, phenotypes, tar gene 1230.
obstructive lung disease, lung, man 800.
olfactory organs, binding, activity, sex pheromone+analogs, *Periplaneta americana* 1132.
olfactory perception, pheromones, electrophysiology, *Trichoplia* ni 806.
sweetness, response, furanose, *Boettcheriana peregrina* 392.
taste, serotonin role, *Rana temporaria* 778.
- Recognition**,
chemical communication, evolution, *Formicidae* 1295.

Recognition, (continued)

- cues, mating behavior, chemical perception, *Belonogaster petiolata* 912.
Nezara viridula eggs, bioassays, chemical stimuli, kairomones, *Trissolcus basalis* 149.
 pheromones, nests, *Atta cephalotes* 621.
 populations, chemoreception, *Oncorhynchus kisutch* 635.
 role, chemical stimuli, conspecifics, males, *Polistes fuscatus* 205.
 self, conspecifics, chemoreception, chemical communication, *Procambarus clarkii* 518.
- Recovery of function,**
 cortex (olfactory), olfactory bulb ablation effects on organization, development, rats 61.
- Recruitment,**
 chemical communication, evolution, *Formicidae* 1295.
 chemical communication, *Trachymyrmex urichi* 546.
 foraging behavior, trail pheromone, *Paraponera clavata* 169.
 olfaction, food, *Ectatomma ruidum* 937.
 trail following behavior, bioassays, trail pheromone, *Crematogaster*, *Nasutitermes costalis* 178.
- Rectum,**
 epithelium, functional morphology, pheromones dissemination, *Ceratitis capitata* 520.
- Reflexes,**
 activity lung, capsaicin stimulation C-fibers, effects on, dogs 22.
 olfaction, asphyxia, neonates, man 36.
- Regurgitation,**
 association antifeedants, minerals, *Isoptera* 181.
- Reinforcement,**
 association, odors, olfactory bulb unit activity, rats 6.
 conspecific odors association, paper flooring in alleyway, rats 1377.
 reinforcing properties, opiates receptors agonists, place+ taste preferences conditioning, rats 253.
- Reinhardtii hippoglossoides,**
 fish, organoleptic evaluation, microwave oven comparison baking, heating effects on, organoleptic properties 347.
- Renal function,**
 carotid artery occlusion, carotid body chemoreceptors inactivation effects on, cats 406.
- Repellency,**
 (E)-2-hexenol, defense secretions, scent gland, *Hotea gambia* 614.
- Repellents,**
 integrated control, pest control, *Olea europaea*, *Dacus oleae*, *Prays oleae*, *Saissetia oleae* 973.
 isolation, characterization, rhizomes, *Saussurea lappa*, *Tribolium castaneum* 161.
 use, alarm pheromone, crops, *Apis mellifera* 199.
- Reproduction,**
 calling behavior, sex pheromone, *Plusia chalcites* 1368.
 regulation, host plants chemicals, fruits, chemoreception, *Dacus oleae* 913.
- Reproductive behavior,**
 conspecifics, hosts chemical stimuli effects on, *Nematoda* 1263.
 estrus cycle, urine odors, mice 222.
 odors effects on, primer effects, *Rodentia* 218.
 olfactory stimuli, sex pheromone, males, *Adoxophyes orana* 513.
 relationship, sex pheromone release, *Lythra litorea* 1236.
 site selection, chemoreception, *Salvelinus namaycush* 212.
 urine histocompatibility locus H-2, olfactory perception effects on, mice 626.
- Reproductive isolation,**
 release sex pheromone, (Z)-11-hexadecanal, *Platyptilia carduidactyla*, *Platyptilia williamsii* 152.
 sex pheromone, *Diachrysa chrysis*, *Diachrysa tutti*, Switzerland 916.
 sex pheromone, isomers, *Diabrotica lemniscata*, *Diabrotica longicornis* 1269.
- Reproductive status,**
 physiology, odors effects on, primer effects, *Rodentia* 218.
- Reproductive strategy,**
 unisexual populations, identification, fitness, chemical stimuli, *Ambystoma jeffersonianum* 1384.
- Respiration,**
 sleep rhythms, chemoreceptors, carotid sinus, rats 23.
- Respiratory distress syndrome,**
 leukocytes (neutrophilic) chemotaxis, lavage fluids, man 67.
- Respiratory system,**
 odors, production, *Mammalia* 272.
- Reticulitermes,**
 defense secretions 202.
- Reviews,**
 aroma compounds biosynthesis, microorganisms 1471.
 chemical communication, olfactory perception, behavior, *Mammalia* 662.
 chemical communication, *Termitidae* 208.
 chemoreceptors, developmental stages, peripheral nerves, *Insecta* 382.
 development, olfactory pathways, sexual dimorphism, *Insecta* 801.
 essential oils production 692.
 essential oils, quality control 312.
 homing behavior, role, magnetic fields, olfactory stimuli, pigeons 1393.
 leukocytes (polymorphonuclear), chemoreceptors, man 1204.
 navigation behavior, role, odors, magnetic fields, pigeons 1387.
 olfaction, chemoreceptors 417.
 olfaction chemoreceptors, odors, characterization, man 32.
 olfactory discrimination, *vertebrata* 5.
 olfactory system, electrophysiology, anatomy characterization, monkeys 1187.
 olfactory system, maturation, plasticity, *Vertebrata* 817.
 sulfur aroma compounds, brewing 676.
 ultrahigh temperature pasteurization, effects on flavor, milk 1087.
 vomeronasal organs, olfactory bulb, structure, *Vertebrata* 387.
 yeasts metabolism, flavor maturation, beer 1463.
- Rhagoletis cerasi,**
 pheromones, deterrents, oviposition 906.
- Rhagoletis pomonella,**
 chemoreceptors, sensilla, ovipositor, physiology 1131.
- Rheumatoid arthritis,**
 synovial fluid interleukin 1, role lymphocytes, chemotaxis, man 796.
- Rhipicephalus appendiculatus,**
 aggregation pheromone, identification, guanine 553.
 2,6-dichlorophenol, pheromones, levels, relationship, feeding 542.
- Rhodogasteria,**
 carbon dioxide chemoreceptors, sense organs, labial palps, physiology, ultrastructure, innervation 1169.

- Rhodosporidium toruloides,**
 sex differentiation, rhodotorucine A, induction, calcium, calmodulin, role 1228.
- Rhodotorucine A,**
 induction, sex differentiation, *Rhodosporidium toruloides* 1228.
- Rhyacionia buoliana,**
 larvae population density, synthetic sex pheromone, pheromone traps, *Pinus sylvestris* 925.
- Rhynchospora,**
 ovipositor, calling behavior, sex pheromone, *Arctidae* 136.
- Rhyzoglyphus rolini,**
 sensilla, olfactory organs, leg, ultrastructure, innervation 811.
- Ribes nigrum,**
 aroma, chemical composition, 4-methoxy 2-methyl 2-mercapto-butane 1402.
 buds, essential oils, spathulene 1411.
 chemical composition, essential oils, buds 288.
- Riboflavin,**
 effects on *Polytomella magna* chemotaxis 119.
- Ripening,**
 effects on apple juice organoleptic evaluation 352.
 effects on aroma compounds volatiles, kiwifruit 281.
 methodology effects on, organoleptic evaluation, tomatoes 365.
 sodium phosphate, potassium phosphate, potassium phosphate, effects on cheese flavor, Cheddar cheese 719.
 triacylglycerol lipase, organoleptic evaluation, cheese 1467.
 volatiles aroma compounds, blueberries 287.
- Riptortus clavatus,**
 mating behavior, role, olfaction 900.
- Robenidine,**
 effects on chickens, taste panel evaluation 731.
- Rock sugar,**
 chemical composition, taste panel evaluation 1484.
- Rodentia,**
 chemical communication, olfactory perception, behavior, reviews 662.
 odors, effects on reproductive status, physiology, reproductive behavior, primer effects 218.
 olfaction, role, social behavior, scent gland, anatomy 248.
 olfaction, role, social behavior, scent gland, anatomy 249.
 olfaction, role, social behavior, scent gland, anatomy 250.
- Rodenticides,**
 development, role, taste aversion learning, rats 262.
- Roots,**
 exudates, glutamic acid, arginine, zoospores chemotaxis, *Phytophthora cinnamomi*, disease resistance, susceptibility, *Vitis vinifera* 1231.
 volatiles, use, *Diabrotica attractants*, *Zea mays* 176.
- Rosmarinus officinalis,**
 essential oils production, chemical composition, olfactory properties, leaves 693.
- Rubber,**
 septa, pheromones release, predictions 1493.
- Rutiles rutilus,**
 auditory evoked potentials, medulla oblongata, tectum, external stimuli effects on 1184.
- (S,S)-Epi-anastrephrin,**
 attractancy, sex pheromone, *Anastrepha ludens* 905.
- Sabulodes caberata,**
 sex pheromone glands, chemical composition, identification, characterization 1260.
- Saccharin,**
 bitterness, taste 342.
 dietary intake, naloxone inhibition, rats 779.
 fructose mixtures, comparison aspartame, acesulfame K, taste panel evaluation, sweetness 354.
 taste aversion learning, nicotine induction, hamsters 1375.
- Saccharomyces cerevisiae,**
 cloning, gene expression, platelet-derived growth factor genes, man, induction, chemotaxis, 3T3 cells 495.
- Saccharomyces kluyveri,**
 sex pheromone, peptides, structure 1247.
- Saccharomyces vini,**
 aroma compounds biosynthesis, aerobic conditions, anaerobic conditions 303.
- Safety,**
 food additives, color 740.
- Saffron,**
 effects on chemotaxis, *Polytomella magna* 1232.
- Seguinus fuscicollis,**
 chemical communication, scent marking behavior, chemical composition 1007.
- Saissetia oleae,**
 integrated control, pest control, pheromone traps, attractants, repellents, *Olea europaea* 973.
- Salami,**
 meat products, starter cultures, bacteria, fermentation, organoleptic properties 1086.
- Salicaceae,**
 luteolin-7-glucoside, salicin, feeding stimulants, *Chrysomelidae* 160.
- Salicin,**
 feeding stimulants, isolation, *Salicaceae*, *Chrysomelidae* 160.
- Saliva,**
 pheromones, puberty, males, pigs 1356.
- Salix gracilistyla,**
 luteolin-7-glucoside, feeding stimulants, isolation, *Chrysomelidae* 160.
- Saimo gairdneri,**
 fishery products, spoilage, odors, *Vibronaceae* 1093.
 olfactory nerve sectioning, effects on electro-olfactograms activity, characterization 1183.
- Saimo salar,**
 olfaction role swimming behavior 658.
 olfactory stimuli deprivation, survival, abnormal behavior 660.
- Saimonella typhimurium,**
 ATP role chemotaxis 126.
 chemotaxis, role, cyclic AMP, cyclic GMP 1233.
 genes, chemoreceptors proteins 135.
 transduction, maltose chemotaxis 482.

- Salmonidae**,
fishery products, vacuum packaging, spoilage, *Lactobacillus*, bacteria, odors 1091.
- Salts**,
effects on organoleptic properties, eggs, cooking 737.
preservation, nitrate effects on odors, fishery products, *Clupea* 328.
preservation, nitrate effects on organoleptic evaluation, fishery products, *Clupea* 329.
taste perception, pregnancy effects on, man 795.
taste preferences, drinking behavior, naloxone, antagonism sulpiride hyperdipsic activity, rats 1149.
- Salvelinus alpinus**,
conspecifics, chemoreception 234.
pheromones, use, migration 1037.
- Salvelinus namaycush**,
reproductive behavior, site selection, chemoreception 212.
- Sambucus nigra**,
flavor constituents, volatiles, flowers, fruits 291.
- Santalum album**,
essential oils 704.
- Saponin**,
off flavor, *Pisum sativum* 338.
- Serotherodon galliaeus**,
olfactory organs development, embryos 823.
- Satiety**,
injection, ventricles (cerebral), effects on taste aversion learning, feeding behavior, rats 641.
- Sauces**,
fishery products, aroma, volatiles 1403.
- Sausages**,
blood plasma fermentation effects on organoleptic evaluation, cattle 1479.
pork, pork comparison, flavor, taste panel evaluation 344.
pork, soy flour effects on, organoleptic evaluation 356.
storage effects, spoilage, organoleptic evaluation, meat products 723.
- Sausurea lappa**,
rhizomes, repellents, isolation, characterization, *Tribolium castaneum* 161.
- Scabies**,
anogenes, degradation, sex pheromone, *Antheraea polyphemus* 753.
- Scandentia**,
olfaction, role, social behavior, scent gland, anatomy 244.
- Scanning electron microscopy**,
papillae, morphology, taste, horse, cattle 1198.
papillae, tongue, man 1163.
tongue, *Thamnopis radix* 824.
- Scarabaeidae**,
trapping 1276.
- Sceloides cordalis**,
sex pheromone, isolation, characterization, attractancy, effects on mating 1262.
- Sceloporus jarrovi**,
olfaction, activation, vomeronasal organs, relationship, seasonal variation, breeding, status 390.
- Scent gland**,
anatomy, *Chiroptera* 246.
anatomy, *Dolichotis patagonum* 252.
anatomy, *Hystrix morpha* 250.
anatomy, *Insectivora*, *Macroscelidea*, *Scandentia* 244.
anatomy, *Mammalia*, books 374.
anatomy, *Marsupialia* 243.
anatomy, *Monotremata* 242.
anatomy, *Myomorphs* 248.
anatomy, *Odontocercus albicorne* 41.
anatomy, *Sciuriformes* 249.
anatomy, *Tubulidentata*, *Proboscidea*, *Hyracoridae* 247.
anatomy, *Tupaia belangeri* 245.
anatomy, *Xylocopa fimbriata*, *Xylocopa gualanensis* 424.
chemical composition, secretions, *Ptilophorus perplexus*, *Blapharidopterus angulatus* 1344.
defense secretions, (E)-2-hexenol, repellency, *Hotea gambia* 614.
morphology, *Monodelphis domestica* 827.
regulation, pheromones, biosynthesis, association, food intake, pyrrolizidine alkaloids, *Creatonotus gangis*, *Creatonotus transiens* 509.
role, vasopressin, arginine-injection, hypothalamus (anterior), preoptic area, induction, scent marking behavior, hamsters 1370.
- Scent marking behavior**,
aggressive behavior inhibition effects on, males, mice 1011.
chemical communication, *Canis lupus* 637.
chemical communication, *Saguinus fuscicollis* 1007.
conspecific odors, bioassays, *Tupaia belangeri* 636.
control, function, *Suricata suricatta* 1366.
Dolichotis patagonum 252.
feces, home range, *Apodemus sylvaticus* 241.
habitat marking, gene regulation, *Drosophila melanogaster*, *Drosophila simulans* 610.
latrines, *Nyctereutes procyonoides* 239.
mate selection relationship, hamsters 220.
olfactory stimuli, *Canis lupus* 1013.
relationship, social rank, *Sus scrofa* 1369.
response, conspecific odors, *Tatera indica* 1012.
species, sex specificity, *Thamnopis marianus* 1359.
vagina, females, role, distance, males, hamsters 631.
vasopressin, arginine-injection, hypothalamus (anterior), preoptic area, induction, role, scent gland, hamsters 1370.
wallowing, *Cervus nippon* 217.
- Scents**,
urine, histocompatibility locus H-2, effects on reproductive behavior, mice 626.
- Schistosoma**,
chemical communication, attractancy, in vitro 1350.
chemical communication, conferences 1500.
chemoreception, maturation, reviews 1351.
- Schistosoma japonicum**,
characterization, chemotactic factors, leukocytes (neutrophilic), eggs 457.
chemotaxis, leukocytes (neutrophilic), leukocytes (eosinophilic) 88.
- Schistosoma mansoni**,
chemical communication, biochemical analysis 1352.
chemotactic factors, identification 1264.
chemotaxis, males, in vitro, females chemotactic factors 1265.
- Schistosoma mansoni**, (continued)
chemotaxis, sexual behavior, photography, in vitro 1266.
effects on leukocytes (eosinophilic) chemotaxis, mice 865.
- Schizaphis graminum**,
biological control, antifedants, isolation, *Plectranthus barbatus* 581.
- Schizosaccharomyces pombe**,
aroma compounds biosynthesis, aerobic conditions, anaerobic conditions 303.
- Scincella lateralis**,
predatory behavior, role, chemical perception 1031.
- Scirpophaga incertulas**,
sex pheromone, isolation, identification 141.
- Sciuriformes**,
olfaction, role, social behavior, scent gland, anatomy 249.
- Scolytidae**,
aggregation pheromone response, host plants volatiles effects on 574.
- Scolytus multistriatus**,
host plants, attractancy, pheromones, chemical composition, *Ulmus americana* 941.
- Scophthalmus maximus**,
inosine binding taste buds, effects on feeding behavior 151.
- Scrobipalopsis solanivora**,
sex pheromone, chemical composition 146.
- Scuticellatida**,
chemotaxis, cadmium, copper effects on 876.
- Scyllorhinus canicula**,
leukocytes (granulocytic), chemotactic factors, chemotaxis, man 1223.
olfactory organs, ultrastructure, function 1186.
- Seafood**,
odors, spoilage 724.
- Seasonal variations**,
taste panel evaluation, *Ictalurus punctatus* 1485.
- Seaweeds**,
food preferences, chemotaxis, *Arbacia punctulata* 949.
- Secretions**,
dispersal, relationship, age, sex differences, *Blattella germanica* 555.
Dufour's gland, chemoreception, kin recognition, chemical composition, *Haictinae* 620.
role, dispersal pheromones, prothorax glands, *Datana ministra* 1172.
- Seeds**,
chromatography, chemical composition, aroma, *Trigonella foenum graecum* 1400.
Glycine max, exudates, chemotaxis, *Pseudomonas* 869.
- Selenium**,
deficiency role leukocytes (polymorphonuclear) chemotaxis, goats 838.
nutrient deficiency, effects on leukocytes (neutrophilic) chemotactic factors production, leukocytes (polymorphonuclear), *Oreamnos americanus* 448.
- Semiochemicals**,
association feeding behavior, bioassays, *Anthonomus grandis grandis* 1289.
attractancy, traps, design, butyl acetate, propyl propionate, *Glischrochilus quadrisignatus* 1283.
electroantennograms, *Dendroctonus ponderosae* 1258.
pheromone traps, pest control, *Pinus contorta*, *Dendroctonus ponderosae* 1287.
role host selection, colonization, monoterpene hydrocarbons, *Pinus sylvestris*, *Tomicus piniperda*, Germany, Fed. Rep., Harthorn 1279.
role, pollination, *Ophrys lutea*, *Andrena fuscipes* 1302.
- Semotilus margarita**,
androgens effects on alarm pheromone epithelium cells 1003.
- Sense organs**,
labial palps, carbon dioxide chemoreceptors, physiology, ultrastructure, innervation, *Rhodogastria* 1169.
- Sensilla**,
chemoreceptors, labial palps, ultrastructure, *Pieris rapae* 380.
chemoreceptors, physiology, ovipositor, *Rhagoletis pomonella* 1131.
gustatory stimuli, olfactory stimuli, ultrastructure, *Calliphora vicina*, *Yponomeuta* 43.
leg, chemoreception, bioassays, food preferences, *Chilo partellus* 2.
maxillary palps, ultrastructure, mechanoreceptors, chemoreceptors, *Drosophila melanogaster* 39.
membranes, electrical properties, olfactory organs, *Antheraea polyphemus* 1.
olfaction, surfaces coats, *Antheraea polyphemus* 422.
olfactory organs, leg, ultrastructure, innervation, *Rhyzoglyphus robini* 811.
- Sensory neurons**,
antennal sensilla, morphology, *Typhlobianilius lorifer*, *Cylindroiulus punctatus* 803.
surfaces coats, *Antheraea polyphemus* 422.
- Septum**,
carbachol, angiotensin II microinjection, effects on taste preferences, rats 270.
- Seriola quinqueradiata**,
olfaction, algal blooms, EEG, olfactory bulb, *Chattonella* 759.
- Serotonin**,
effects on feeding behavior, flavor compounds, rats 654.
role taste receptors, *Rana temporaria* 778.
uptake inhibitors, effects on avoidance learning, olfactory bulb lesions, rats 643.
- Serricornin**,
sex pheromone, activity, inhibition, isomers, *Lasioderma serricornis* 543.
- Serum**,
burn patients, leukocytes (neutrophilic) chemotaxis, man 111.
dogs, chemotactic agents, chemotaxis larvae, *Ancylostoma caninum* 134.
pregnancy, effects on chemotaxis, leukocytes, man 84.
- Setae**,
sugars chemoreceptors, mannitol, stereospecificity, *Boettcherisca peregrina* 44.
- Settling behavior**,
chemical stimuli, structure-activity relationships, marine environment, Invertebrata 1235.
immature stages, role, antennae secretions, *Balanus balanoides* 989.
induction, metamorphosis, larvae, *Porites compressa* chemicals, *Phestilla sibogae* 990.
- Sewage effluents**,
characterization odors 706.
- Sewage sludges**,
effects on flavor, *Daucus carota*, *Cucumis sativus* 332.
- Sewage treatment**,
odors, hydrogen sulfide, pollution control, water quality 1459.
- Sex**,
association attractancy, aggregation pheromone, *Blattella germanica* 1304.
comparison, odors identification, olfaction, man 27.
specificity, scent marking behavior, *Thamnopis marianus* 1359.

Sex pheromone, (continued)

- synthetic, structure-activity relationships, attractancy, *Periplaneta americana* 514.
- synthetic, sunlight, effects on release, attractancy, insects 590.
- synthetic, synthesis, methodology, *Musca domestica* 1396.
- taxonomic significance, chemical composition, Noctuidae, Amphipyridae, Hadeninae, Plusiinae 923.
- (Z)-11-tetradecenal, (E)-11-tetradecenal, Tortricidae, Drepanidae, Noctuidae 512.
- Z-7-tetradecenal, use, pest control, *Prays oleae* 193.
- 15,15-trimethylheptadecanone, synthesis, *Glossina morsitans morsitans* 672.
- wings, chemical analysis, orientation, *Ephesia elutella* 538.
- Sex pheromone-binding protein**,
Achlya ambisexualis 497.
- Sexual behavior**,
chemotaxis, photography, in vitro, *Schistosoma mansoni* 1266.
- males, adults, correlation, early experience, olfactory perception, odors, rats 627.
- males, body odors females effects on, hamsters 1363.
- sex pheromone, *Ascanus suum* 918.
- vagina secretions, odor perception effects on males, hamsters 1357.
- Sexual dimorphism**,
development, olfactory pathways, insects, reviews 801.
- Sexual intercourse**,
inducers, ovulation, pheromones role, rats 624.
- Sexual receptivity**,
urine odors, indicators, washing, urine, *Brachyteles arachnoides* 622.
- Sexual reproduction**,
chemical stimuli, structure-activity relationships, marine environment, invertebrates 1235.
- 17 α -methyltestosterone, inhibition, alarm pheromone containing epidermis cells, *Brachydanio rerio* 1002.
- Sheep**,
body odors, fostering, neonates 628.
- fostering, odors 629.
- odors transfer, adoption 1365.
- olfactory bulb, norepinephrine containing efferent pathway, role, maternal behavior 229.
- vacuum packaging methodology, effects on storage life span 1491.
- Shelf life**,
effects on food, organoleptic evaluation 1489.
- organoleptic evaluation, flavor, odors, milk products 717.
- Sida effects**,
caupirori, taste perception, man 24.
- Sitophilus oryzae**,
aggregation pheromone, chemical composition, 5-hydroxy-4-methyl-3-heptanone 565.
- Sitophilus zeamais**,
aggregation pheromone attractancy, factors affecting 938.
- aggregation pheromone, chemical composition, 5-hydroxy-4-methyl-3-heptanone 565.
- Skin**,
chemotaxis, leukocytes (polymorphonuclear), Boyden chamber 72.
- odors production, Mammalia 272.
- terpenes distribution, grapes 1064.
- Skin window**,
leukocytes (polymorphonuclear) chemotaxis, tuberculosis, pneumonia, diseases 1168.
- Sludges**,
manure, odor pollution, control 1424.
- odor pollution control 1458.
- odor pollution, deodorization, slurries, livestock, conferences 1499.
- slurries, odor pollution, evaluation 1452.
- Slurries**,
aerobic bacteria use odor pollution control, pigs 1441.
- biogas plants, livestock, odor pollution control 1442.
- livestock, volatiles, chemical composition 1406.
- odor pollution control, use aeration, pigs 1439.
- odor pollution control, use aeration, pigs 1440.
- odor pollution, deodorization, sludges, livestock, conferences 1499.
- odor pollution, pigs 1456.
- sludges, odor pollution, evaluation 1452.
- Social behavior**,
role, olfaction, *Chiroptera* 246.
- role, olfaction, *Hystricomorpha* 250.
- role, olfaction, Insectivora, *Macroscelida*, *Scandentia* 244.
- role, olfaction, Mammalia, books 374.
- role, olfaction, *Marsupialia* 243.
- role, olfaction, *Monotremata* 242.
- role, olfaction, *Myomorpha* 248.
- role, olfaction, *Sciuromorpha* 249.
- role, olfaction, *Tubulidentata*, *Proboscidea*, *Hyracoidae* 247.
- role, olfaction, *Tupaia belangeri* 245.
- sex differences, *Octodon degus* 633.
- vomerolateral organs, olfaction, Mammalia 634.
- Social environment**,
conspecific odors, anus glands atrophy, *Microtus agrestis* 1190.
- early experience, effects on response, conspecific odors, mice 240.
- Social interactions**,
reversal, taste aversion learning, rats 265.
- role, olfactory discrimination, feces, *Nyctereutes procyonoides* 238.
- Social organization**,
colonies, dominance, queens, pheromones, *Apis mellifera* 991.
- correlation, odors, comparison, *Microtus*, *Apodemus*, *Clethrionomys* 235.
- Social rank**,
relationship, conspecific odors detection, males, gerbils 263.
- relationship, scent marking behavior, *Sus scrofa* 1369.
- Sodium**,
binding sites, characterization, tongue, taste perception, *Rana catesbeiana* 1145.
- membrane potential, taste cells, *Rana* 395.
- Sodium chloride**,
effects on pork 364.
- effects on taste irritation, man 793.
- substitution effects on, taste panel evaluation, Cheddar cheese 1113.
- taste preferences, *Papio papio* 1018.
- Sodium metabisulfite**,
methodology, decay control, grapes, *Vitis vinifera* 1119.
- Sodium phosphate**,
ripening, effects on cheese flavor, Cheddar cheese 719.
- Solanum tuberosum**,
host plants, olfactory stimuli, orientation, *Leptinotarsa decemlineata* 1129.
- Solar radiation**,
use pheromones synthesis, 4-methyl-3-heptanone 1044.
- Solenopsis invicta**,
kin recognition, role, cuticle hydrocarbons, environmental factors 1347.
- trail pheromone, volatilization, effects on foraging behavior 1285.
- Solid phase methods**,
extraction, essential oils, hops 688.
- Solitary tract nucleus**,
facial nerve, nerve endings ultrastructure, hamsters 64.
- neurons, response taste stimuli, mechanical stimuli, oral cavity, decerebrate rats 397.
- Solvents**,
aroma compounds, industrial effluents, thermodynamics, physicochemical properties 1404.
- effects on conformation, sex pheromone, 8,10-dodecadienol, analogs, *Cydia pomonella* 154.
- Soman**,
comparison, phosostigmine, effects on taste aversion learning, rats 264.
- Sorbic alcohol**,
production, lactic acid bacteria, wine odors 728.
- Sorex araneus**,
olfactory organs morphometry, olfactory perception, fatty acids 55.
- Sour**,
taste perception, man 792.
- South Africa**,
trapping, attractants, *Scarabaeidae* 1276.
- Soy flour**,
effects on pork sausages, organoleptic evaluation 356.
- Soy sauce**,
fermentation, aroma production, *Aspergillus oryzae* 326.
- Soybean oil**,
hydrogenation effects on flavor 1468.
- Soybeans**,
fermentation, *Streptococcus lactis* starter cultures, flavor, cheese substitutes 721.
- fermentation, *Streptococcus lactis* starter cultures, flavor, cheese substitutes 1461.
- Sperganthesis pilleriana**,
sex pheromone, chemical composition, (Z)-11-tetradecenyl acetate, (E)-11-tetradecenyl acetate 909.
- Spathulenol**,
buds, essential oils, *Ribes nigrum* 1411.
- Spatial discrimination learning**,
odors, early experience, enhancement, rats 257.
- Species composition**,
pheromone traps, catches, biological control, *Ips typographus* 1319.
- Spermatozoa**,
attractants, *Phaeophyta*, Australia 1227.
- Spinal cord**,
magnesium, dependent N-methyl-D-aspartic acid induction, locomotion, *Petromyzon marinus* 1202.
- Spodoptera**,
antifeedants, plant extracts, *Vismia* 561.
- Spodoptera eridania**,
sex pheromone, chemical composition, biological control 986.
- Spodoptera exigua**,
sex pheromone, chemical composition, biological control 986.
- Spodoptera frugiperda**,
pheromone traps, monitoring, population levels, pasture, French Guiana 957.
- sex pheromone, chemical composition, attractancy 1261.
- sex pheromone, chemical composition, biological control 986.
- Spodoptera littoralis**,
antifeedants, clerdane diterpenoids, plant extracts, *Ajuga* 563.
- pheromone traps, integrated control, Israel 953.
- sex pheromone, pheromone traps, pest control 598.
- Spodoptera litura**,
antifeedants, chemical composition, plant extracts, *Tylophora asthmatica* 929.
- orientation, factors affecting, sex pheromone, (Z,E)-9,11-tetradecadienyl acetate, (Z,E)-9,11-tetradecadienyl acetate 138.
- pheromone traps, height, effects on catches 187.
- Spillage**,
cold storage, organoleptic properties, food 1464.
- Lactobacillus*, bacteria, odors, vacuum packaging, fishery products, *Salmonidae* 1091.
- odors, seafood 724.
- odors, *Vibrionaceae*, fishery products, *Salmo gairdneri* 1093.
- storage effects, organoleptic evaluation, blood pancakes, sausages, meat products 723.
- Sporotrichum sulfurescens**,
hydroxylation, 2,6-lutidine, aroma compounds 302.
- Squalus acanthias**,
olfactory bulb projections hindbrain, electrophysiology characterization 765.
- olfactory organs, ultrastructure, function 1186.
- 4S,6S,7S-Sericornin**,
sex pheromone antagonists, mating behavior, *Lasioderma serricorne* 1245.
- Staphylococcus aureus**,
chemotactic factors effects on monocytes chemotaxis, man 840.
- enterotoxin B effects on sex pheromone production, males, *Anthonomus grandis* 883.
- Escherichia coli*, leukocytes (neutrophilic), chemotaxis, mastitis, cattle 1221.
- Starter cultures**,
bacteria, fermentation, organoleptic properties, salami, meat products 1066.
- propionic acid, cheese flavor production, propionic acid bacteria immobilized cells 327.
- Streptococcus lactis*, fermentation, soybeans, flavor, cheese substitutes 721.
- Streptococcus lactis*, fermentation, soybeans, flavor, cheese substitutes 1461.
- Stevioside**,
analog, organoleptic properties 732.
- Stigmodesma macularia**,
buprestine, characterization, isolation, bitter principle 210.
- Sitostedion vitreum vitreum**,
visual stimuli, chemical stimuli, attractancy, juveniles 1034.
- Stomoxys calcitrans**,
flight activity response, starvation, hosts odors, carbon dioxide 177.

- Storage,**
effects on apple juice organoleptic evaluation 352.
effects on aroma compounds volatiles, kiwifruit 281.
effects on beef, organoleptic evaluation 1102.
effects on eggs+orange juice beverages, off flavor 341.
effects on leukocytes (neutrophilic) chemotaxis, man 454.
effects on nonfat dry milk, taste panel evaluation 362.
effects on organoleptic evaluation, pork 1490.
effects on pork 364.
milk effects on Teleme cheese off flavor 335.
odor pollution control, manure 1431.
vacuum packaging methodology effects on life span, sheep 1491.
- Storage effects,**
spoilage, organoleptic evaluation, blood pancakes, sausages, meat products 723.
- Stored products,**
pest control, methoprene stimulation aggregation pheromone production, *Coleoptera* 606.
- Strawberries,**
yogurt beverages, flavor, taste panel evaluation 360.
- Streptococcus lactis,**
starter cultures, fermentation, soybeans, flavor, cheese substitutes 721.
starter cultures, fermentation, soybeans, flavor, cheese substitutes 1461.
- Streptococcus lactis diacetylactis,**
dairy starters effects on flavor, ghee 367.
- Streptomyces griseofuscus,**
odor compounds, production, water pH 1460.
- Streptomyces resistomyticus,**
odor compounds, production, water pH 1460.
- Stress,**
conspecific odors, activation, defensive behavior, rats 1367.
- Strongyloides ratti,**
larvae effects on leukocytes (neutrophilic), release, leukocytes (eosinophilic), chemotactic factors, guinea-pigs 1213.
- Submaxillary gland,**
androstenone role, taints, pigs 1095.
- Substance P,**
immunohistochemistry localization, neurons, olfactory bulb, cats 820.
neurons, development, taste buds, circumvallate papillae, ultrastructure, rats 82.
- Suckling behavior,**
nipple localization, role, olfactory stimuli, tactile stimuli 225.
pheromones induction, role, vomeronasal organs, rabbits 1029.
taste perception development, rats 224.
- Sucrose,**
effects on pork 364.
effects on taste imitation, man 793.
sweeteners, food additives, confectionery products 1419.
- Sugars,**
chemoreceptors, mannitol, stereospecificity, setae, *Boettcherisca peregrina* 44.
effects on feeding behavior, *Popillia japonica* 1278.
phagostimulants, *Allium cepa*, *Hyliemya antiqua* 554.
- Sulfonamides,**
immunosuppression chemotaxis, leukocytes (neutrophilic) 70.
- Sulfur,**
aroma compounds, brewing, reviews 676.
- Sulpiride,**
hyperdipsic activity, naloxone antagonism, taste preferences, salts, drinking behavior, rats 1149.
- Supella longipalpa,**
attractants, bait 980.
- Superoxide,**
production, allopurinol effects on leukocytes (neutrophilic), chemotaxis, blood, man 852.
- Superparasitism,**
host selection, Dufour's gland secretions, pheromones, *Nemeritis canescens* 902.
- Surticata surticata,**
scent marking behavior, control, function 1366.
- Sus scrofa,**
scent marking behavior, relationship, social rank 1369.
- SV40,**
transformed cells, embryo fibroblasts, chemotaxis, fibronectin, Boyden chamber, man 115.
transformed cells, fibroblasts chemotaxis, fibronectin fragments 481.
- Swarming behavior,**
chemotaxis, hypothesis, mathematical models, *Chondramyces apiculatus* 1224.
- Sweet potatoes,**
volatiles, aroma compounds, chemical composition, *Ipomoea batatas* 293.
- Sweeteners,**
adenosine receptors modulation, taste intensity, tongue, man 799.
aspartic acid analogs, taste 1413.
effects on yogurt, organoleptic evaluation 1114.
flavorings, food additives 1422.
sucrose, food additives, confectionery products 1419.
- Sweetness,**
flavor, potassium sorbate effects on, pasteurized milk 710.
methyl 2,3-di-O-(L-alanyl)-D-glucopyranoside, synthesis 305.
reaction time, taste, man 28.
receptors response, furanose, *Boettcherisca peregrina* 392.
structure-activity relationships, chirality, amino acids 308.
structure-activity relationships, taste, aspartame 1076.
taste panel evaluation mixtures saccharin, aspartame, acesulfame K comparison, taste panel evaluation 354.
taste perception, man 1165.
taste responsiveness, obesity, mathematical models, man 35.
weightlessness, mathematical models, man 797.
- Swimming behavior,**
olfaction role, *Salmo salar* 658.
- Switzerland,**
reproductive isolation, sex pheromone, geographical distribution, phenology, morphology, *Diachrysa chrysis* 916.
- Synanthedon,**
pheromones, synergism, octadecadienyl acetates, trapping 1327.
- Synanthedon dominicki,**
sex pheromone, attractancy 880.
- Synanthedon exitiosa,**
response, pheromones, 3,13-octadecadien-1-ol, males 200.
- Synanthedon pictipes,**
response, pheromones, 3,13-octadecadien-1-ol, males 200.
- Synanthedon tipuliformis,**
sex pheromone, identification, chemical composition 894.
calling behavior, sex pheromone release 515.
- Synapses,**
chemoreceptors, *Limulus polyphemus* 1201.
morphology, ventral striatal cells, olfactory tubercle, *Phaseolus vulgaris* agglutinin axonal transport, rats 54.
- Synaptic transmission,**
catechin effects on, cortex (olfactory), rats 758.
- Syncoerus caffer,**
urine, attractants, phenols, kairomones, *Glossina pallidipes* 967.
- Synergists,**
sex pheromone, effects on traps, catches, *Trichoplusia oxygramma* 1312.
- Synovial fluid,**
interleukin 1, role, lymphocytes chemotaxis, rheumatoid arthritis, man 796.
- Synura,**
effects on, off flavor, water 707.
- Syringoderma phinneyi,**
gametes, pheromones, chemistry, configurations 1226.
- Tactile perception,**
facial nerve innervation, palate, *Fugu pardalis* 377.
- Tactile stimuli,**
role, breast feeding, neonates, rabbits 230.
- Taenia,**
characterization, chemotactic factors 455.
- Taenia taeniaeformis,**
infection, role, chemotaxis, rats, leukocytes (eosinophilic) 1215.
- Tagetes,**
essential oils 697.
- Tagetes minuta,**
essential oils chemical composition 701.
- Taints,**
androstenone role, submaxillary gland, pigs 1095.
tetrahydropyridines, *Brettanomyces-Lactobacillus* role, wine 1092.
urine, *Rangifer tardus* meat, off flavor 726.
- Taiwan,**
synthetic sex pheromone attractancy, *Adoxophyes privata*, *Homona magnanima* 1275.
- Taraxacum,**
bitterness, chemical composition 1063.
comparison *Cichorium intybus*, bitter extracts, taste panel evaluation 1104.
- Taste,**
adaptations, habituation, man 790.
adaptations, tests, man 407.
alcoholic beverages, role, ethanol taste aversion learning, rats 1372.
amino acids, *Rana sphenoccephala* 1152.
aspartic acid analogs, sweeteners 1413.
bitterness, C-terminal structure role, β -casein, cattle 691.
bitterness, hydrophobicity, L-amino acids 684.
bitterness, saccharin 342.
cells, membrane potential, *Rana* 395.
cells response, potassium benzoate, rats 1150.
control, behavior, relationship, maturation, digestive tract, perception, stimuli, rats 256.
electron microscopy, papillae, cells, rabbits 1199.
fibers, facial nerve, distribution, nervous system, *Cyprinus carpio* 1196.
gustatory stimuli, chemoreceptors, distribution, papillae, tongue, *Rana catesbeiana* 1144.
inheritance role, mice 780.
intensity, sweeteners, adenosine receptors modulation, tongue, man 799.
interaction texture 1107.
intention, quinine, sodium chloride effects on, man 793.
mediation, potentiation, overshadowing, aversion learning, environments, rats 1017.
neurons, posteromedial ventral nucleus, oral cavity, rats 63.
papillae, morphology, scanning electron microscopy, horse, cattle 1198.
peptides synthesis, structure-activity relationships 1074.
potentiation, odor aversion learning, rats 1022.
reaction time, sweetness, man 26.
receptors, activity, feeding behavior, characterization, *Homarus americanus* 775.
receptors, serotonin role, *Rana temporaria* 778.
response, characterization, chorda tympani nerve electrical stimulation induction, rats 396.
responsiveness sweetness, mathematical models, obesity, man 35.
sweetness, bitterness, structure-activity relationships, aspartame 1076.
zooplankton, food preferences, food intake, taste preferences 947.
- Taste acuity,**
kidney transplantation effects on, uremia, man 414.
- Taste aversion,**
anesthesia induction, rats 1020.
caffeine induction, rats 639.
conditioned response, ethanol induction, amitrole inhibition, mechanisms, rats 1014.
conditioned response, lithium induction, brain mediation, rats 644.
conditioned response, nicotine induction, chlorisondamine intracerebroventricular administration, inhibition, rats 1148.
development, rats 255.
- Taste aversion learning,**
ability, breeding, rats 1025.
conditioned inhibition, rats 1021.
conditioned response, acetaldehyde interaction morphine, effects on, rats 261.
development, weaning factors affecting, rats 258.
drugs induction, similarity, symptoms, rats 640.
ethanol, role, taste, alcoholic beverages, rats 1372.
ethanol, zimeidine induction, rats 1015.
flavor experience effects on, rats 1024.
food intake, azadiridin, iso-octyl 2,4-dichlorophenoxyacetate, *Poephila guttata* castanotis 653.
hippocampus lesions disruption, rats 645.
hypoxia effects on, rats 254.
morphine induction, role, cortex (insular), rats 642.

Taste aversion learning, (continued)

odors enhancement, age, rats 1023.
 pesticides (organophosphorus), rats 1016.
 phosytigmine, comparison, soman, rats 264.
 role, development, rodenticides, rats 262.
 saccharin, nicotine induction, hamsters 1375.
 satietin injection, ventricles (cerebral), effects on, rats 641.
 social interactions reversal, rats 265.
 temperature effects on, rats 1019.

Taste buds,

age effects on, monkeys 401.
 calmodulin distribution, cattle 431.
 cells, membrane potential, electrophysiological recording, tongue perfusion, Rana catesbeiana 1195.
 circumvallate papillae, development, substance P neurons, ultrastructure, rats 62.
 denervation, effects on ingestion, taste solutions, rats 1028.

inosine binding, effects on feeding behavior, *Scophthalmus maximus* 1151.
 membrane potential, mice 1153.
 morphology, distribution, *Typhlonectes compressicaudus* adults, *Ichthyophis* larvae 1185.
 nerves, regeneration, rats 393.

tongue, mouth epithelium, distribution, occurrence, function, *Lacertilia* 400.

Taste discrimination,

Agapurus bisporus fruit bodies, *Didelphis virginiana* 269.
 cortex (anterior insular gustatory) lesions effects on, rats 19.
 fruits yogurt, man 343.
 reaction time, phenylthiocarbamide comparison, man 28.

Taste organs,

norepinephrine+calcium, role, Rana 777.

Taste panel evaluation,

age effects on milk 1109.
 aspartame 363.
 bitterness extracts, *Taraxacum* comparison *Cichorium intybus* 1104.
 chemical composition, Mexican white cheese, cheese 1110.
 chemical composition, rock sugar 1484.
 computer programs 1488.
 custodes mixtures saccharin, aspartame, acesulfame K comparison, sweetness 354.
 fruits, *Lycopersicon esculentum* 1478.
 memory, orange juice, man 1488.
 methodology, beef 357.
 methodology, stimuli, man 1476.
 organoleptic properties, chemical composition, *Crassostrea gigas*, *Crassostrea virginica* 1101.
 plant breeding, *Ipomoea batatas* 738.
 pork sausages comparison fish, sausages flavor 344.
 α radiation effects on beans 345.
 γ radiation effects on cherries 346.
 γ radiation, treatment, mince meat+mayonnaise 734.
 robenidine effects on chickens 731.
 seasonal variations, *Lotulus punctatus* 1485.
 sodium chloride substitution effects on, Cheddar cheese 1113.
 storage effects on nonfat dry milk 362.
 wine, bananas 1099.
 wine, fermentation temperature, cultivars, *Vitis vinifera* 1475.
 wine, man 1483.
 yogurt, strawberries beverages flavor 360.

Taste perception,

age effects on, statistical analysis, man 1162.
 antineoplastic drugs effects on, man 787.
 bitterness suppression, tongue, man 25.
 cigarette smoking, surveys, man 1497.
 cues, motivation, learning behavior 648.
 deficiency, phenylthiourea, population genetics, gene frequency, man, Jordan 418.
 development, sucking behavior, rats 224.
 diets, infants, man 29.
 facial nerve, nerve endings, ultrastructure, solitary tract nucleus, hamsters 64.
 flavor, aversion learning, induction, defensive behavior, burying behavior, rats 647.

flavor compounds, learning behavior, rats 649.
 glucose anomers effects on insulin release, role brain stem, man 1477.
 heavy metals inhibition, chorda tympani nerves, mice 18.
 interaction binding, man 788.
 magnesium finding sites characterization, tongue, Rana catesbeiana 1145.
 multiple sclerosis, man 34.
 mutants, deletion gene mapping, *Drosophila melanogaster* 391.
 salts, pregnancy effects on, man 795.
 side effects, captopril, man 24.
 sour, man 792.
 sweetness, man 1165.
 threshold, role age, man 791.

Taste preferences,

aspartame, rats 1030.
 carbachol, angiotensin II microinjection, septum, effects on, rats 270.
 conditioning, opiate receptors agonists, reinforcing properties, rats 253.
 ethanol, hunger stimulation, rats 650.
 food preferences, food intake, zooplankton 947.
 Formicidae 179.
 salts, drinking behavior, naloxone, antagonism sulpiride hyperdipsic activity, rats 1149.
 sodium chloride, *Papio papio* 1018.
 threonine effects on, rats 781.

Taste stimuli,

activation, feeding behavior, avoidance behavior, deterministic vs. probabilistic models, rats 1032.
 chorda tympani nerves responsiveness, gymnemic acid effects on, *Pan troglodytes* 17.
 cortex (frontal opercular) unit activity, *Macaca fascicularis* 1146.
 effects on efferent discharges activity, gastric branches, vagus nerve, rats 1147.
 interaction, chemoreceptors stimuli, viscera, solitary tract nucleus activity, rats 776.
 +olfactory stimuli potentiation, aversion learning, rats 1378.
 oral cavity, solitary tract nucleus neurons response, decerebrate rats 397.
 tongue, neurons, parabrachial nuclei, response, *Mesocricetus* 1143.
 unit activity response, nerves, *Macaca fascicularis* 398.

Tatera indica,

scent marking behavior response, conspecific odors 1012.

Taxonomic significance,

sex pheromone, chemical composition, Noctuidae, Amphipyrinae, Hadeninae, Plusiinae 923.

Tayassu tajacu,

olfaction related behavior 632.

Tea,

flavor, volatiles, chemical composition 286.

Tectum,

auditory evoked potentials, external stimuli effects on, *Rutilus rutilus* 1184.

Tegument,

essential oils, chemical composition, nuts, *Prunus amygdalus* 315.

Telme cheese,

milk storage effects on off flavor 335.

Telencephalon,

olfactory bulb, afferent connections, anatomy, Rana 770.

olfactory bulb, projections, anatomy, pigeons, comparison, *testudines* 1191.

Temperature,

calling behavior, sex pheromone, Arctiidae 136.

effects on beef, organoleptic evaluation 1102.

effects on calling behavior, pheromone emission, *Holomelina lamae* 921.

effects on chemotactic defects, storage induction, chemotaxis, leukocytes (polymorphonuclear), man 475.

effects on diacetyl production, flavor compounds, dairy starters, lactic acid bacteria 1402.

effects on flavor, *Apium graveolens* 1495.

effects on organoleptic evaluation, pork 1490.

effects on taste aversion learning, rats 1019.

fermentation, wine production, taste panel evaluation, cultivars, *Vitis vinifera* 1475.

Termites,

olfactory system mapping, *Achatina fulica* 42.

trail following behavior, *Limax pseudoflavus* 948.

Tephritidae,

capture, females, traps, relationship, males attractants use 1335.

pest control, pheromone traps, conferences 1498.

pheromones, role, feeding, mating, oviposition, pest control 960.

Termitidae,

chemical communication, reviews 208.

Terpenes,

distribution, skin, grape juice, grapes 1064.

Terpenols,

aroma compounds, grapes 1056.

Terpinene-4-ol,

attractancy bait, *Polygraphus poligraphus* 191.

Territorial behavior,

chemical communication, evolution, Formicidae 1295.

role, chemical stimuli, *Cichlasoma nigrofasciatum* 233.

sex odors, cats 236.

Tertiary structure,

binding proteins, stereospecificity, active transport, chemotaxis, periplasmic space, gram-negative bacteria 868.

Testes,

chemotherapy effects on monocytes chemotaxis, carcinoma, man 847.

Testosterone,

implants effects on pork odors, boar taints 1473.

metabolism, epithelium, olfactory bulb, castration effects on, males, rats 1139.

role olfactory stimuli effects on pregnancy blocking factors, mice 625.

Testudines,

olfactory bulb, projections, telencephalon, anatomy, comparison, pigeons 1191.

Tetrahyn or,

sex pheromone, attractancy, identification 148.

Tetradecanyl acetate,

sex pheromone, *Mamestra brassicae* 985.

(E)-11-Tetradecenal,

sex pheromone, Tortricidae, Drepanidae, Noctuidae 512.

(Z)-1-Tetradecenal,

sex pheromone, Tortricidae, Drepanidae, Noctuidae 512.

Z-7-Tetradecenal,

pheromone traps, pest control, Prays citri, Sicily 194.

sex pheromone, use, pest control, Prays oleae 193.

(E)-11-Tetradecanyl acetate,

chemical composition, sex pheromone, *Sparganothis pilleriana* 909.

(Z)-11-Tetradecanyl acetate,

chemical composition, sex pheromone, *Sparganothis pilleriana* 909.

sex pheromone, chemical composition, *Adoxophyes orana* 908.

(Z)-5-Tetradecanyl acetate,

(Z)-9-tetradecanyl acetate, sex pheromone chemical composition, *Agrotis exclamationis* 922.

(Z)-9-Tetradecanyl acetate,

sex pheromone, chemical composition, *Adoxophyes orana* 908.

sex pheromone, chemical composition, attractancy, *Agrotis segetum* 532.

(Z)-5-tetradecanyl acetate, sex pheromone chemical composition, *Agrotis exclamationis* 922.

Tetrahydroxyrindines,

taints, *Brettanomyces*+*Lactobacillus* role, wine 1092.

Tetrahymena,

chemotaxis, cadmium, copper effects on 876.

oxygen chemotaxis 493.

Tetrahymena thermophila,

chemotaxis, proteins 117.

Tetramorium impurum,

synthesis, pheromones, (3R,4S)-4-methyl-3-hexenol 668.

Thalamus,

projections, cortex (gustatory), rats 1194.

Thamphiphi marianus,

scent marking behavior, species, sex specificity 1359.

Thamphiphi radix,

scanning electron microscopy, tongue 824.

Thanasimus formicarius,

olfactory system, chemoreceptors, cells electrophysiology characterization, pheromones 376.

Thaumetopoea wilkinsoni,

mating disruption, sex pheromone, pinyole, pest control 1336.

Subject Index

- Thermodynamics**, physicochemical properties, aroma compounds, solvents, industrial effluents 1404.
- Thermophilic bacteria**, chemotaxis, amino acids 129.
- methylation, demethylation, chemoreceptors 782.
- Thiophenone**, organoleptic properties, cysteine+2,5-dimethyl-4-hydroxy-3(2H)-furanone reaction products 711.
- Thorax**, bioassays, cues, recognition, mating behavior, *Belonogaster petiolata* 912.
- Threonine**, effects on taste preferences, rats 781.
- Threshold**, olfaction, eugenol+benzaldehyde, EEG, dogs 384.
- Thymocyte-activating factor**, keratinocytes, epidermis production, lymphocytes T chemotactic factors 464.
- Thymus**, extracts, cattle, leukocytes (granulocytic) chemotaxis, lymphocytes T chemotaxis 103.
- thymomeres, chemotactic defects, phagocytes, children 419.
- Thymus broussonetii**, chemical analysis, essential oils 318.
- Thymus maroccanus**, chemical analysis, essential oils 318.
- Thymus pallidus**, chemical analysis, essential oils 318.
- Thymus satureioides**, essential oils, chemical analysis 318.
- Thymus serpyllum**, essential oils 1417.
- Thymus zygis**, chemical analysis, essential oils 318.
- Thyridopteryx ephemeriformis**, sex pheromone, effects on, 1-methylbutyl decanoate, mating behavior 954.
- Ticlopidine**, effects on leukocytes (neutrophilic) chemotaxis, rats 441.
- Tilait cheese**, cheese flavor compounds 284.
- Tobacco**, chemical composition volatiles comparison, tobacco 680.
- essential oils, flavor compounds 309.
- volatiles, 3-hydroxy-4,5-dimethyl-2(5H)-furanone 1061.
- Tofu**, organoleptic evaluation, coconut cream effects on 349.
- Tomatoes**, ripening methodology effects on, organoleptic evaluation 365.
- Tomus piliperda**, host selection, colonization, role semiochemicals, *Pinus sylvestris*, Germany, Fed. Rep., Hartheim 1279.
- Tongue**, adenosine receptors modulation, taste intensity, sweeteners, man 799.
- fungiform papillae, chorda tympani nerves, lingual nerve innervation, hamsters 66.
- magnesium binding sites characterization, taste perception, *Rana catesbeiana* 1145.
- papillae, chemoreceptors distribution, taste, gustatory stimuli, *Rana catesbeiana* 1144.
- perfusion, electrophysiological recording, membrane potential, taste buds cells, *Rana catesbeiana* 1195.
- scanning electron microscopy, papillae, man 1183.
- scanning electron microscopy, *Thamophilus radix* 824.
- taste perception, bitterness suppression, man 25.
- taste stimuli, neurons, parabrachial nuclei, response, *Mesocricetus* 1143.
- Tortricidae**, sex pheromone, pheromone traps, attractancy 602.
- Tortricella testacea**, synthetic attractants, 9,11-dodecadienyl alcohols, 9,11-dodecadienyl acetates, 9,11-dodecadienyl aldehydes 665.
- Tortrix viridiana**, pheromone traps, correlation, population levels 592.
- Tournefortia utilis**, aroma compounds biosynthesis, aerobic conditions, anaerobic conditions 303.
- Toxins**, *Bacillus anthracis*, effects on leukocytes (polymorphonuclear) chemotaxis, man 438.
- Bordetella pertussis*, chemotaxis inhibition, leukocytes (polymorphonuclear), man 442.
- Bordetella pertussis*, effects on leukocytes (neutrophilic) chemotaxis, leukocytes (neutrophilic) 71.
- Bordetella pertussis* inhibition chemotactic factors production, leukemia cells, man 447.
- Bordetella pertussis*, inhibition chemotaxis, cell hybrids, man, mice 120.
- host plants, palatability, *Anolis*, *Bufo*, *Neocoryphus bicinctus* 266.
- immune system, leukocytes (neutrophilic) chemotaxis inhibition, *Loxosceles reclusa* 1210.
- perfusion role leukocytes (neutrophilic) chemotaxis inhibition, peritoneum, rabbits 845.
- Toxoids**, *Clostridium tetani*, activation, leukocytes (mononuclear), biosynthesis, chemotactic factors, lymphocytes T chemotaxis, man 474.
- Toxotrypanum curvicauda**, sex pheromone, males, effects on, courtship 530.
- Trachymyrmex urichi**, chemical communication, trail pheromone, recruitment, foraging behavior, kin recognition, defense secretions 546.
- Trail following behavior**, bioassays, trail pheromone, cembrene-A, recruitment, orientation, *Nasutitermes costalis* 178.
- chemoreception, *Euglandina rosea* 577.
- mucus, *Deroceas laevis* 171.
- orientation, tentacles, *Limax pseudoflavus* 948.
- recruitment, *Idiommyrmex humilis* 932.
- trail pheromone, chemical communication, *Leptothorax affinis* 1308.
- Trail pheromone**, cembrene-A, bioassays, trail following behavior, recruitment, orientation, *Nasutitermes costalis* 178.
- chemical communication, *Trachymyrmex urichi* 546.
- identification, 3-ethyl-2,5-dimethylpyrazine, *Manica rubida* 162.
- isolation, identification, *Camponotus compressus* 927.
- purification, chemical composition, *Odontotermes obscurus* 547.
- recruitment, foraging behavior, *Paraponera clavata* 169.
- trail following behavior, chemical communication, *Leptothorax affinis* 1308.
- volatilization, effects on foraging behavior, *Solenopsis invicta* 1285.
- Transduction**, maltose chemotaxis, *Salmonella typhimurium* 482.
- Transformed cells**, comparison fibroblasts, chemotaxis, epidermis, man 864.
- SV40, embryo fibroblasts, chemotaxis, fibronectin, Boyden chamber, man 115.
- SV40, fibroblasts chemotaxis, fibronectin fragments 481.
- Trapping**, attractants, Scarabaeidae, South Africa 1276.
- live capture, conspecific odors effects on, olfactory discrimination, *Apodemus sylvaticus* 1006.
- pest control, pheromone traps, ammonium carbonate, *Dacus oleae* 974.
- pheromones synergism, octadecadienyl acetates, *Sesididae* 1327.
- Traps**, capture, females, relationship, males attractants use, *Tephritidae* 1335.
- catches, host plants, volatiles, attractancy, *Pinus sylvestris*, *Hylobius abietis* 1293.
- catches, sex pheromone synergists effects on, *Trichoplusia oxygramma* 1312.
- color+ammonium acetate, *Dacus oleae* 971.
- design, attractancy, semiochemicals, butyl acetate, propyl propionate, *Glioscichius quadrignatus* 1283.
- odors, pest control, *Dacus oleae* 1326.
- Trematoda**, chemical communication 1349.
- Tricacylglycerol lipase**, ripening, organoleptic evaluation, cheese 1467.
- Tristoma mazzottii**, aggregation pheromone, sex pheromone, isolation, attractancy 1284.
- Tribolium castaneum**, aggregation pheromone production, methoprene stimulation, use, pest control, stored products 606.
- chemical communication, attractancy, males fitness, offspring heritability 884.
- repellents, isolation, characterization, rhizomes, *Saussurea lappa* 161.
- Trichogramma evanescens**, sex pheromone, attractancy 531.
- Trichogramma minutum**, kairomones, effects on parasitism, *Choristoneura fumiferana*, USA, Maine 1316.
- Trichogramma pretiosum**, host searching behavior, stimulation, *Lycopersicon esculentum* volatiles 899.
- Trichoplusia ni**, antennal sensilla, pheromones, detection, neurophysiology, morphology 1128.
- host selection, stimulation, excretory products, kairomones, *Heliothis zea* 992.
- receptors, olfactory perception, electrophysiology, pheromones 806.
- sex pheromone, attractancy, males 911.
- Trichoplusia oxygramma**, sex pheromone, synergists, effects on traps, catches 1312.
- Trichostrongylus colubriformis**, feeding stimuli, chemoreception 580.
- Trifolium repens**, plant extracts, effects on feeding, *Pieris brassicae*, *Plutella xylostella* 928.
- Trigeminal nerve**, chemoreceptors response aliphatic alcohols, rats 769.
- ramus mandibularis projections, facial lobe, *Plotosus anguillaris* 1197.
- Trigonella foenum graecum**, chromatography, chemical composition, aroma, seeds 1400.
- 2,4,6-Trilauroyl-4H-1,3,5-dithiazine, characterization, bacon odors 294.
- Trimedure**, additives, effects on attractancy, *Ceratitis capitata* 1323.
- pheromone traps, efficacy, males, *Ceratitis capitata* 593.
- structure-activity relationships, *Ceratitis capitata*, attractancy 600.
- Trimethylammonium hydrochloride**, chemoreception, feeds additives, feeding stimulation, *Macrobrachium rosenbergii* 15,19,23-Trimethylheptatriacontane, sex pheromone, synthesis, *Glossina morsitans morsitans* 672.
- Trisoctus basalis**, recognition, *Nezara viridula* eggs, bioassays, chemical stimuli, kairomones 149.
- Triturus**, conspecific, chemical communication 1362.
- Triturus cristatus**, glutamine stimulation, effects on unit activity, olfactory bulb 762.
- Trogoderma granarium**, males, response, sex pheromone, selection, breeding, genetic control 1318.
- Trogoderma variabile**, sex pheromone, orientation 1243.
- Tropical environment**, conferences, pest control, pheromones, *Insecta* 1123.
- pheromones, pest control, *Insecta* 956.
- Trybliographa**, host searching behavior, olfactory stimuli 1299.
- Trypodendron domesticum**, attractancy, linolein, α -pinene 603.
- Trypodendron lineatum**, aggregation pheromone synthesis, linolein 275.
- attractancy, linolein, α -pinene 603.
- pest status, monitoring, pest control, aggregation pheromone, pheromone traps, Europe 962.
- pheromone traps, efficacy, height 585.
- Tuerculois**, leukocytes (polymorphonuclear), chemotaxis, skin window, man 1168.
- Tubulidentata**, olfaction, role, social behavior, scent gland, anatomy 247.
- Tuftsin**, analogs peptide synthesis, effects on chemotaxis, leukocytes (polymorphonuclear) 451.

- Tumor cells**, chemotaxis, mammary gland, rats 106.
fibroblasts chemotaxis, wound healing 469.
monocytes, chemotactic factors, bombesin, man 461.
- Tupalia belangeri**, olfaction, role, social behavior, scent gland, anatomy 245.
scent marking behavior, conspecific odors, bioassays 636.
- Turpentine**, attractancy, bait, Scolytidae, Curculionidae 197.
chemical stimuli, attractancy, pest attack, *Pinus elliotti*, *Dendroctonus terebrans* 966.
- Typhlophage asthmatica**, antifeedants, chemical composition, plant extracts, *Spodoptera litura* 929.
- Typhlobianulus lorifer**, antennal sensilla, morphology, sensory neurons 803.
- Typhionectes compressicaudus**, taste buds, morphology, distribution, adults 1185.
- Tyrophagus putrescentiae**, attractancy, organic compounds, food 933.
- Tyrosine 3-monooxygenase**, immunogenicity localization, neurons, periglomerular region, olfactory bulb, rats 59.
localization, periglomerular cells, olfactory bulb, rats 53.
olfactory organs, distribution, rats 51.
- Ulmus americana**, host plants, attractancy, chemical composition, pheromones, *Hylurgopinus rufipes*, *Scolytus multistriatus* 941.
- Ultrahigh temperature**, pasteurization, effects on flavor, milk, reviews 1087.
- (E)-5-Undecenoic acid**, sex pheromone, isolation, *Anthrenus verbasci* 142.
- (Z)-5-Undecenoic acid**, sex pheromone, isolation, *Anthrenus verbasci* 142.
- Uremia**, kidney transplantation effects on taste acuity, man 414.
- Urinary tract**, odors, production, *Mammalia* 272.
- Urine**, bait, attractancy, cattle, buffaloes, *Glossina pallidipes* 192.
saccharification, odors, colonial characteristics 1121.
histocompatibility locus H-2, scents, olfactory perception, reproductive behavior, mice 626.
taints, *Rangifer tarandus* meat, off flavor 726.
washing, urine odors, indicators, sexual receptivity, *Brachyteles arachnoides* 622.
- Urine odors**, aggressive behavior inhibition effects on, males, mice 1011.
5 α -androst-16-ene-3-one, pigs, induction, aggressive behavior, mice 630.
chemical stimuli, reproductive status, mating behavior, estrus cycle, cattle 1001.
effects on puberty, role, photoperiod, food deprivation, females, mice 223.
estrus cycle, reproductive behavior, mice 222.
females discrimination, dominance, males, mate selection, hamsters 1008.
indicators, sexual receptivity, washing, urine, *Brachyteles arachnoides* 622.
induction, lordosis behavior, feminized males, rats 1353.
lactation, long-term effects, locomotor activity, females, mice 657.
3-methyl-3-butenyl methyl sulfide, *Vulpes vulpes*, suppression, feeding behavior, *Lepus americanus* 1360.
territorial behavior, cats 236.
volatiles, relationship, hormones levels, chemical communication, *Mus musculus* 1004.
volatiles, relationship, sex hormones levels, chemical communication, *Canis lupus* 996.
vomeronasal organ role, effects on puberty, mice 219.
- Urodeles**, olfactory epithelium, supporting cells unit activity 766.
- Urosalpinx cinerea**, predatory behavior, olfactory discrimination, chemical stimuli, water flow 560.
- USA, California**, population levels, monitoring, use, pheromone traps, *Anarsia lineatella* 604.
- USA, Maine**, kairomones, effects on parasitism, *Choristoneura fumiferana*, *Trichogramma minutum* 1316.
- USA, Oregon, Salmon R.**, homing behavior, morpholine, olfactory stimuli, *Oncorhynchus kisutch* 659.
- Uterus**, blood, chemotaxis, leukocytes (polymorphonuclear), horses 78.
- Vaccenyl acetate**, chemical composition, aggregation pheromone, *Drosophila melanogaster* 564.
- Vaccinium ashei**, fruits, volatiles aroma compounds, ripening 287.
- Vacuum packaging**, effects on organoleptic evaluation, pork 1490.
fishery products, *Salmonidae*, spoilage, *Lactobacillus*, bacteria, odors 1091.
methodology, effects on storage life span, sheep 1491.
- Vagina**, mucus, isolation, mounting pheromones, estrus, cattle 1000.
odors, vomeronasal organ role olfactory perception, males, hamsters 14.
scent marking behavior, females, role, distance, males, hamsters 631.
secretions, odor perception effects on males sexual behavior, hamsters 1357.
- Vagus nerve**, gastric branches, taste stimuli effects on efferent discharges activity, rats 1147.
- Vapors**, mixtures, aroma production, Litman aromatrack 743.
- Vascular system**, chemotaxis factors effects on endothelium, placenta, man 125.
- Vasopressin**, arginine, injection, hypothalamus (anterior), preoptic area, induction, scent marking behavior, role, scent gland, hamsters 170.
- Vegetables**, juices, high-performance liquid chromatography, aldehydes, ketones 1073.
- Venom**, bioassays, cues, recognition, mating behavior, *Belonogaster petiolata* 912.
immune system, leukocytes (neutrophilic) chemotaxis inhibition, *Loxosceles reclusa* 1210.
- Ventilation**, chemoreceptors, carbon dioxide, lung, chickens 403.
chemoreceptors, carotid body, regulation, man 783.
phase, olfactory stimuli coding, olfactory bulb, rabbits 383.
- Vertebrata**, olfactory discrimination, reviews 5.
olfactory organs, evolution 822.
olfactory perception, chemoreceptors, comparison, chemotaxis, bacteria 388.
olfactory system, maturation, plasticity, reviews 817.
vomeronasal organs, olfactory bulb, structure, reviews 387.
- Vertigo**, olfactory stimuli induction, role, limbic system, cerebellum, rabbits, man 1134.
- Vespula maculifrons**, pheromones, chemical composition, attractancy 939.
- Vibrio fischeri**, alkanal monooxygenase (FMN-linked), affinity, biosensor, pheromones, *Antheraea pernyi*, *Heliothis armigera* 1238.
- Vibrio harveyi**, alkanal monooxygenase (FMN-linked), affinity, biosensor, pheromones, *Antheraea pernyi*, *Heliothis armigera* 1238.
- Vibrionaceae**, spoilage, odors, fishery products, *Salmo gairdneri* 1093.
- Vigna unguiculata**, canning effects on leaves organoleptic properties 366.
- Vimentin**, neurons containing, olfactory epithelium, rats 65.
- Vinblastine**, effects on leukocytes (polymorphonuclear) chemotaxis, cyclic AMP, motility, man 94.
- Vineyarda**, population density, pheromone traps, (E)-7-(Z)-9-dodecadienyl acetate, *Lobesia botrana* 1309.
- Viscera**, chemoreceptors stimuli, interaction, taste stimuli, solitary tract nucleus activity, rats 776.
- Vismia**, antifeedants, plant extracts, *Noctuidae*, *Acrididae* 561.
- Vital deprivation**, + olfactory stimuli deprivation, effects on homing behavior, pigeons 1391.
- Visual perception**, olfactory perception, habituation, exploratory behavior, rats 1386.
- Visual stimuli**, effects on, olfaction, children, man 1166.
- Vitamins**, off flavor, packaging effects on, milk 339.
- Vitellogenesis**, role, aggregation pheromone, *Blattella fusca* 175.
- Vitis**, volatiles distribution, skin, grape juice 1064.
- Vitis vinifera**, amino acids effects on wine organoleptic properties 1098.
cultivars, wine production, fermentation temperature, taste panel evaluation 1475.
decay control, sodium metabisulfite methodology, grapes 1119.
disease resistance, susceptibility, roots exudates, glutamic acid, arginine, zoospores chemotaxis, *Phytophthora cinnamomi* 1231.
- Volatiles**, aroma compounds, apples, chemical composition, alcohols effects on 279.
aroma compounds, chemical composition, sweet potatoes, *Ipomoea batatas* 293.
aroma compounds, fruits, *Psidium guajava* 278.
aroma compounds, ripening, blueberries 287.
aroma compounds, ripening, storage, maturity effects on, kiwifruit 281.
aroma, fishery products, sauces 1403.
centrifugation, pasteurization effects on, fruit juices, *Passiflora edulis* 333.
chemical analysis, *Carica candamarcensis pubescens*, fruits 297.
chemical analysis, *Dacus dorsalis*, *Dacus cucurbita* 209.
chemical composition, aroma, *Mangifera indica* 1401.
chemical composition, attractants, *Cucurbita maxima*, *Diabrotica undecimpunctata howardi*, *Diabrotica virgifera virgifera*, *Acalymma vittatum* 940.
chemical composition, bacon 1051.
chemical composition, chickens roasted 1397.
chemical composition comparison, cigarettes, tobacco 680.
chemical composition, cooking, coconut 1055.
chemical composition, *Dendroctonus ponderosae* 523.
chemical composition, diets effects on, feces, man 1407.
chemical composition, flavor, *Citrus vulgaris* 689.
chemical composition, flavor, grapefruit juice 1054.
chemical composition, oils, *Juniperus communis* 675.
chemical composition, oils, *Piper nigrum* 1062.
chemical composition, *Oryzaephilus surinamensis* attractants, *Avena* 579.
chemical composition, *Prunus mume* 1052.
chemical composition, slurries, livestock 1406.
chemical composition, wine 283.
cooking conditions effects on, pork 289.
effects on, oviposition, *Medicago sativa*, *Bruchophagus roddi* 898.
ethyl ether analysis, gas chromatography methodology 373.
flavor, chemical composition, *Camellia sinensis* 286.
flavor compounds, Camembert cheese flavor, Brie cheese flavor, *Penicillium caseicola* 300.
flavor compounds, gas chromatography, fats, mutton 292.
flavor compounds, methodology detection, milk 1071.
flavor compounds, monoterpenes, *Ambrosiomyia monospora* 674.
flavor constituents, flowers, fruits, *Sambucus nigra* 291.
flavor constituents, fruits, *Carica pentagona* 686.
flavor, gas chromatography, cheese 280.
food plants, β -bisabolol, orientation, *Anthonomus grandis* 576.
freezing + packaging *Petroselinum* 1470.
gas chromatography, *Capsicum annum* 299.
heat treatments effects on, mangoes, *Mangifera indica* 296.
Helianthus, foraging behavior, conditioning, olfactory stimuli, *Apis mellifera*

Subject Index

Volatiles, (continued)

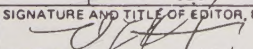
- 942
 host plants, attractancy, traps catches, *Pinus sylvestris*, *Hylobius abietis* 1293.
 host plants, chemoreception, electroantennograms, *Acrolepiopsis assectella* 752.
 host plants, effects on response, aggregation pheromone, *Scolytidae* 574.
 host plants, orientation, olfactory stimuli, *Pinus sylvestris*, *Hylobius abietis* 1303.
 host plants, role, aggregation behavior, *Hylobius abietis* 1307.
 3-hydroxy-4,5-dimethyl-2-(5H)-furanone, tobacco 1061.
 identification, *Empetrum nigrum* 285.
Lycopersicon esculentum, stimulation, host searching behavior, *Trichogramma pretiosum* 899.
 methodology, flavor constituents 1412.
 odors, cigarettes 679.
 odors, development, beef, food spoilage 722.
 plant extracts, effects on food preferences, role pest resistance, *Oryza sativa*, *Nilaparvata lugens* 180.
 γ radiation effects on chemical composition, *Lycopersicon esculentum* 1059.
 stimuli, olfaction, *Ambystoma tigrinum* 761.
 urine odors, relationship, hormones levels, chemical communication, *Mus musculus* 1004.
 urine odors, relationship, sex hormones levels, chemical communication, *Canis lupus* 996.
Zea mays roots, chemical analysis, use, attractants, *Diabrotica* 176.
Vomerantral organs,
 removal effects on lordosis behavior, females, hamsters 1355.
 ablation, sex pheromone, estrus cycle change 214.
 role olfactory perception, odors vagina, males, hamsters 14.
 role. urine odors effects on puberty, mice 219.
 ablation, effects on lordosis behavior, luteinizing hormone-releasing hormone reversal, females, hamsters 997.
 ablation, effects on response, urine odors, conspecifics, males, guinea-pigs 232.
 activation, olfaction, relationship, seasonal variation, breeding status, *Sceloporus jarrovi* 390.
 olfaction, social behavior, feeding behavior, *Mammalia* 634.
 role, pheromones induction, sucking behavior, rabbits 1029.
 structure, *Vertebrata*, reviews 387.
Vulpes vulpes,
 urine odors, 3-methyl-3-butenyl methyl sulfide, suppression, feeding behavior, *Lepus americanus* 1380.
Walking,
 aggregation pheromone effects on, *Ips typographus* 1292.
Washing,
 age, organoleptic evaluation, eggs 368.
 urine, urine odors, indicators, sexual receptivity, *Brachyteles arachnoides* 622.
Waste disposal sites,
 chemicals, detection, olfaction, dogs 1122.
Waste treatment,
 deodorization technology comparison, odor pollution 1435.
Wastes,
 livestock, digestion (anaerobic), odor pollution control 1444.
 livestock, odor pollution control, digestion (anaerobic) 1443.
 livestock, odor pollution control, digestion (anaerobic) 1445.
 livestock, odor pollution control use fermentation 1447.
Wastewater treatment,
 chromatography, odor pollution 1455.
 odor control 319.
 odor pollution, sludges disposal 1450.
Water,
 odors, gas chromatography detection 1082.
 off flavor, *Synura* effects on 707.
Water chemistry,
 chemical communication, sex pheromone, algae, reviews 882.
Water pH,
 production, odor compounds, *Streptomyces griseofuscus*, *Streptomyces resistomycicus* 1460.
Water pollution,
 pollutants effects on chemoreception, *Pisces* 1036.
Water quality,
 sewage treatment, odors, hydrogen sulfide, pollution control 1459.
Wearing,
 factors affecting taste aversion learning development, rats 258.
Weather,
 effects on odor pollution, livestock 1454.
Weightlessness,
 mathematical models, sweetness, man 797.
Wheat germ,
 agglutinins, characterization, N-formyl-methionyl-leucyl-phenylalanine induction
 leukocytes (polymorphonuclear) chemotaxis inhibition 453.
 agglutinins, inhibition N-formyl-methionyl-leucyl-phenylalanine induction
 leukocytes (polymorphonuclear) chemotaxis, man 458.
Whey,
 binding flavor compounds 690.
Wind,
 calling behavior, sex pheromone, *Arctidae* 136.
Wine,
 age effects on aroma compounds chemical composition 1057.
 aging, computers analysis, flavor 282.
 amino acids effects on organoleptic properties, *Vitis vinifera* 1098.
 aroma, volatiles, chemical composition 283.
 bananas, taste panel evaluation 1099.
Brettanomyces-Lactobacillus role taints, tetrahydropyridines 1092.
 chemical analysis, monoterpenes ethyl ether, grapes 295.
 fermentation temperature, taste panel evaluation, cultivars, *Vitis vinifera* 1475.
 flavor compounds formation, reaction mechanisms 685.
 high-performance liquid chromatography, aldehydes, ketones 1073.
 odors, sorbic alcohol production, lactic acid bacteria 728.
 organoleptic evaluation, methodology 1097.
 phenols, flavor compounds, chemical composition, high-pressure liquid chromatography 306.
 taste panel evaluation, man 1483.

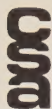
Wine, (continued)

- volatiles, gas chromatography, malolactic fermentation, *Leuconostoc oenos* 1053.
Wings,
 sex pheromone, chemical analysis, orientation, *Ephestia elutella* 538.
Workers,
 chemical communication, relationship evolution, *Acromyrmex landolti* 1286.
Wound healing,
 fibroblasts chemotaxis, tumor cells 469.
Xestia c-nigrum,
 pheromone traps, design, catches, host specificity 1331.
Xylocopa fimbriata,
 scent gland, anatomy 424.
Xylocopa guianensis,
 scent gland, anatomy 424.
Xylotrechus pyrrhoderus,
 mating behavior, sex pheromone 501.
 synthetic sex pheromone, attractancy, females 1043.
Yeasts,
 aroma compounds biosynthesis, aerobic conditions, anaerobic conditions 303.
 chemotaxis, leukocytes (polymorphonuclear) 80.
 extracts, use, flavorings 1083.
 metabolism, flavor maturation, beer, reviews 1463.
Yogurt,
 beverages, taste panel evaluation, strawberries flavor 360.
 fruits, taste discrimination, man 343.
 sweeteners effects on, organoleptic evaluation 1114.
Yponomeuta,
 sensilla, gustatory stimuli, olfactory stimuli, ultrastructure 43.
Yponomeuta cagnagellus,
 antennal sensilla, pores, ultrastructure, chemoreceptors 421.
Yponomeuta vigintipunctatus,
 antennal sensilla, pores, ultrastructure, chemoreceptors 421.
(Z,Z)-7,9-Dodecadienyl acetate,
 pheromone traps, attractancy, *Epinotia* 601.
(Z,Z)-3,6-Nonadienol,
 attractancy, sex pheromone, *Anastrepha ludens* 905.
(Z,E)-3,5-Tetradecadienyl acetate,
 attractants, synthesis, synergism, *Pionoxystus robiniae* 907.
(Z,E)-9,11-Tetradecadienyl acetate,
 sex pheromone, orientation, *Spodoptera litura* 138.
Zea mays,
 roots, volatiles, use, attractants, *Diabrotica* 176.
Zelraphera,
 integrated control, use, pheromones, Canada 1317.
Zimeldine,
 effects on avoidance learning, olfactory bulb lesions, rats 643.
 induction, taste aversion learning, ethanol, rats 1015.
Zinc,
 effects on leukocytes (granulocytic) chemotaxis, aging 90.
 nutrient deficiency immunosuppression leukocytes chemotaxis, man 478.
Zingiber officinale,
 flavor, food additives 1465.
Zooplankton,
 food preferences, food intake, taste preferences 947.
Zoospores,
 chemotaxis, *Phytophthora cinnamomi*, disease resistance, susceptibility, roots
 exudates, glutamic acid, arginine, *Vitis vinifera* 1231.
Curvularia lunata, *Fusarium solani*, *Macrophomina phaseolina* effects on
 chemotaxis, *Actinoplanes missouriensis* 875.
Zygaena lonicerae,
 olfactory stimuli, pyrazines, predation, defensive mechanisms 1272.
Zygosaccharomyces bailii,
 aroma compounds biosynthesis, aerobic conditions, anaerobic conditions 303.
Zygosaccharomyces fermentati,
 aroma compounds biosynthesis, aerobic conditions, anaerobic conditions 303.
Zyosan,
 opsonization, chemotactic factors, leukocytes (polymorphonuclear), rats 91.

STATEMENT OF OWNERSHIP, MANAGEMENT AND CIRCULATION

Required by 39 U.S.C. 3685

1A. TITLE OF PUBLICATION Chemoreception Abstracts		1B. PUBLICATION NO. 0 3 0 0 1 2 6 1		2. DATE OF FILING October 6, 1986	
3. FREQUENCY OF ISSUE 5 times per year March, June, Sep., twice in December		3A. NO. OF ISSUES PUBLISHED ANNUALLY 5		3B. ANNUAL SUBSCRIPTION PRICE \$235.00 (1987)	
4. COMPLETE MAILING ADDRESS OF KNOWN OFFICE OF PUBLICATION (Street, City, County, State and ZIP+4 Code) (Not printers) 5161 River Road, Bethesda, Montgomery County, MD 20816-9998					
5. COMPLETE MAILING ADDRESS OF THE HEADQUARTERS OF GENERAL BUSINESS OFFICES OF THE PUBLISHER (Not printer) 5161 River Road, Bethesda, Montgomery County, MD 20816-9998					
6. FULL NAMES AND COMPLETE MAILING ADDRESS OF PUBLISHER, EDITOR, AND MANAGING EDITOR (This item MUST NOT be blank)					
PUBLISHER (Name and Complete Mailing Address) Disclosure Information Group (formerly Disclosure Partners) d/b/a Cambridge Scientific Abstracts					
EDITOR (Name and Complete Mailing Address) David Cheyney 5161 River Road, Bethesda, MD 20816					
MANAGING EDITOR (Name and Complete Mailing Address) Jonathan R.L. Sears 5161 River Road, Bethesda, MD 20816					
7. OWNER (If owned by a corporation, its name and address must be stated and also immediately thereunder the names and addresses of stockholders owning or holding 1 percent or more of total amount of stock. If not owned by a corporation, the names and addresses of the individual owners must be given. If owned by a partnership or other unincorporated firm, its name and address, as well as that of each individual must be given. If the publication is published by a nonprofit organization, its name and address must be stated.) (Item must be completed.)					
FULL NAME		COMPLETE MAILING ADDRESS			
DNJ CORPORATION		5161 River Road, Bethesda, MD 20816			
ANDILL CORPORATION		5161 River Road, Bethesda, MD 20816			
AMFO, INC.		3232 Ellicott St. NW, Wash. DC 20008			
8. KNOWN BONDHOLDERS, MORTGAGEES, AND OTHER SECURITY HOLDERS OWNING OR HOLDING 1 PERCENT OR MORE OF TOTAL AMOUNT OF BONDS, MORTGAGES OR OTHER SECURITIES (If there are none, so state)					
FULL NAME		COMPLETE MAILING ADDRESS			
NONE					
9. FOR COMPLETION BY NONPROFIT ORGANIZATIONS AUTHORIZED TO MAIL AT SPECIAL RATES (Section 423.12 DMM only) The purpose, function, and nonprofit status of this organization and the exempt status for Federal income tax purposes (Check one)					
<input type="checkbox"/> (1) HAS NOT CHANGED DURING PRECEDING 12 MONTHS		<input type="checkbox"/> (2) HAS CHANGED DURING PRECEDING 12 MONTHS		(If changed, publisher must submit explanation of change with this statement.)	
10. EXTENT AND NATURE OF CIRCULATION (See instructions on reverse side)		AVERAGE NO. COPIES EACH ISSUE DURING PRECEDING 12 MONTHS		ACTUAL NO. COPIES OF SINGLE ISSUE PUBLISHED NEAREST TO FILING DATE	
A. TOTAL NO. COPIES (Net Press Run)		320		340	
B. PAID AND/OR REQUESTED CIRCULATION 1. Sales through dealers and carriers, street vendors and counter sales					
2. Mail Subscription (Paid and/or requested;					
C. TOTAL PAID AND/OR REQUESTED CIRCULATION (Sum of 10B1 and 10B2)		194		214	
D. FREE DISTRIBUTION BY MAIL, CARRIER OR OTHER MEANS SAMPLES, COMPLIMENTARY, AND OTHER FREE COPIES		13		13	
E. TOTAL DISTRIBUTION (Sum of C and D)		207		227	
F. COPIES NOT DISTRIBUTED 1. Office use, left over, unaccounted, spoiled after printing		113		113	
2. Return from News Agents					
G. TOTAL (Sum of E, F1 and 2—should equal net press run shown in A)		320		340	
11. I certify that the statements made by me above are correct and complete		SIGNATURE AND TITLE OF EDITOR, PUBLISHER, BUSINESS MANAGER, OR OWNER  Philip F. Hixon, Publisher			



Cambridge Scientific Abstracts

5161 River Road ☐ Bethesda, MD 20816 USA ☐ 301-951-1400

JOURNALS

Animal Behavior Abstracts®
Aquatic Sciences & Fisheries Abstracts®:
Part 1 - Biological sciences & living resources.
Part 2 - Ocean technology; policy & non-living resources.
ASFA® Aquaculture Abstracts
Biotechnology Research Abstracts
Calcified Tissue Abstracts®
Cambridge Scientific Biochemistry Abstracts:
Part 1 - Biological Membranes
Part 2 - Nucleic Acids
Part 3 - Amino-acids, Peptides & Proteins
Chemoreception Abstracts®
Computer & Information Systems Abstracts Journal
Conference Papers Index®
CSA Neurosciences Abstracts
Ecology Abstracts®
Electronics & Communications Abstracts Journal
Endocrinology Abstracts
Entomology Abstracts®
Genetics Abstracts®
Immunology Abstracts®
SMEC (Information Service Mechanical Engineering) Bulletins
Microbiology Abstracts®
Part A - Industrial & Applied
Part B - Bacteriology
Part C - Algology, Mycology, Protozoology
Oceanic Abstracts®
Oncology Abstracts
Pollution Abstracts®
Safety Science Abstracts Journal
Solid State Abstracts Journal
Toxicology Abstracts®
Virology Abstracts®

BACK VOLUMES

Back volumes are available for all CSA journals more than one year old, in either printed or microfiche form.

MAGNETIC TAPE

The CSA journals (except Oncology Abstracts) are available on magnetic tape in machine-readable form for current awareness and retrospective batch searching. Contact CSA Marketing Department for specifications and prices at 301-951-1403.

ONLINE

Some of the above journals are available in differing online information systems including:

- ☐ DIALOG® Information Retrieval Service
- ☐ Bibliographic Retrieval Service
- ☐ Information Retrieval Service (European Space Agency)
- ☐ System Development Corporation Search Service.

For further details contact CSA Database Services, toll free at 800-638-8076. In Maryland and outside continental U.S., call 301-951-1300.

COMPACT CAMBRIDGE

New for 1986! CSA now offers the Aquatic Sciences and Fisheries Abstracts (ASFA), Life Sciences Collection and MEDLINE databases on compact disks. Quarterly updating. Unlimited searching for one low annual fee.

Chemoreception
Abstracts